

RADIO CONTROLLED ENGINE POWERED RACING BUGGY

# **BURNS 4WD**

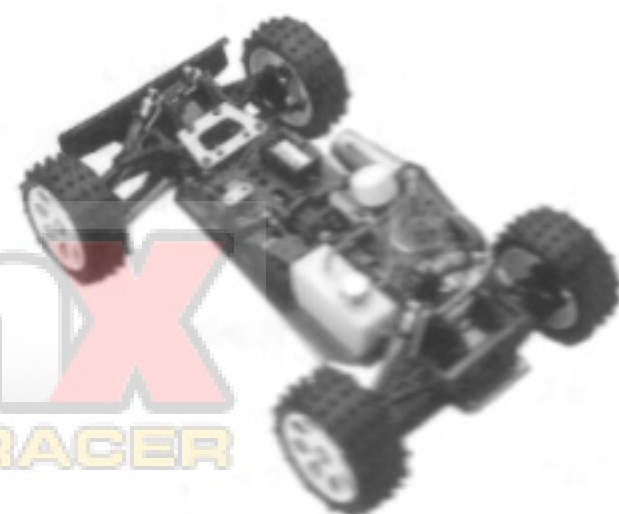
- WISHBONE/PARALLEL-ARM FRONT SUSPENSION WITH UNIVERSAL-JOINT HALFSHAFT.
- PRESSED 17S ALUMINUM PAN-TYPE CHASSIS.
- PRESSURE-TYPE OIL-FILLED SHOCK ABSORBERS FRONT/REAR.
- SHAFT DRIVE TO FRONT/REAR WHEELS.
- ANTI-FRICTION BEARINGS/18 BALL BEARINGS(INCLUDED)

**1:8 SCALE**

21ENGINE  
RADIO: 2ch  
(NOT INCLUDED)



**competitionX**  
A WEB SITE FOR THE SERIOUS RACER





## BEFORE ASSEMBLY

### \*Read the Instruction Carefully.

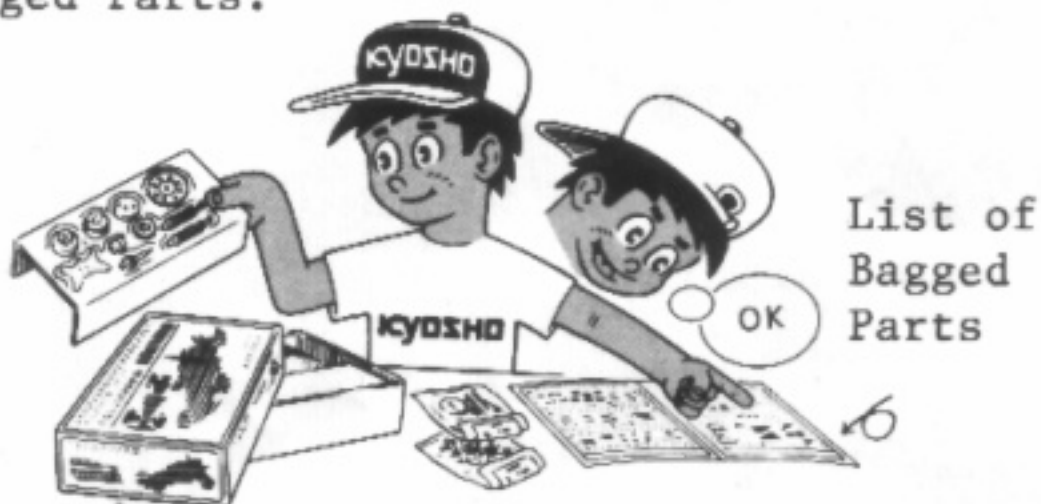
You can assemble the kit more easily if you have grasped the general idea of steps and structure beforehand by reading it through to the end.



Instruction

### \*Check the Parts in the kit

Check to see if all the parts are correctly bagged as they are listed in the "List of Bagged Parts."



List of Bagged Parts

Your thorough understanding of the assembly will enable you to build the kit without any difficulty. Check the components in the kit prior to your starting the assembly. Any claims for replacements or refunds for the model in the process of assembly will not be accepted.

### \*Learn the Marks described in the Instruction.

**LOCKTITE** ..Place to put some locktite applied. (It will keep screws and Nuts from loosening.)

**GREASE** ..Points where grease should be applied. (It will reduce friction and assure smooth movement.)

### \*Be well aware of the different types of screws.

1. The difference between the TP screw (short form of self-tapping screw) and the ordinary screw is

#### \*TP Screw



Some of them have pointed

#### \*Ordinary Screw



Coarse Thread tips. Finer Thread

2. The kinds of screws which will be used in this instruction.

#### \*Bind Screw

Big and flat head.



(There are two kinds of thread, finer and coarser ones.)

#### \*Flat Head Screw

A shape of dish



( " )

### \*Set Screw



A hexagonal hollow in place of screw head.

### \*Cap Screw

Hole of hexagon



### \*Cap Screw w/flange

Hole of hexagon



### \*Pick up the correct parts and screw

Compare the shape and size of small parts, such as screws, nuts, and washers with the attached sheet of "List of Small Parts."



### \*Be sure about the location and direction of parts to install.

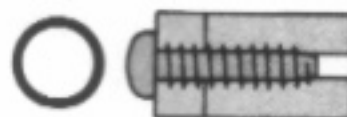
Double-check the location and orientation of parts with the illustration before installation. When necessary, assemble the parts themselves tentatively before proceeding to the next step.



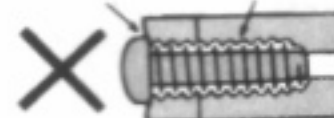
### \*Do not tighten the self-tapping screw too tight.

Do not use excessive force when tightening the self-tapping screws. Or you may strip the thread in the plastic. It is recommended to stop tightening it when the threaded part on the screw goes into the plastic part and you feel some resistance from the tightening.

Good



Over tighten may strip the thread in the plastic.



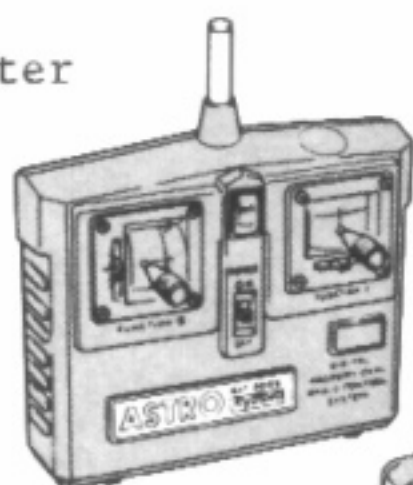
Wrong



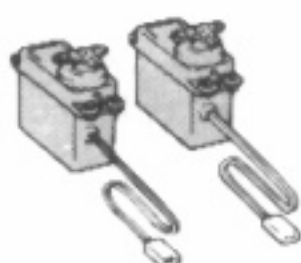
## (2 Channel Radio System)

This model car is provided with a rather large space so that you can mount bigger radio control units. You use usually only one servo, is that is for controlling the rudder.

Transmitter



Servo



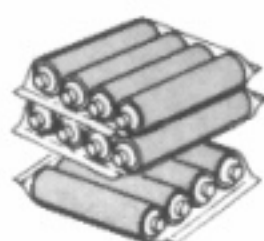
Receiver



Battery Case



Switch



## (Battery for Radio System)

AA Size Battery

(For Transmitter ... 8 pcs.)

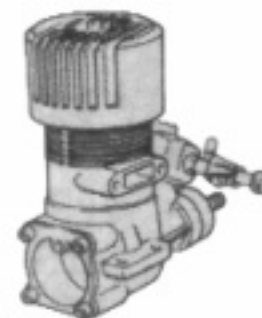
(For Receiver ..... 4 pcs.)

## (Engine)

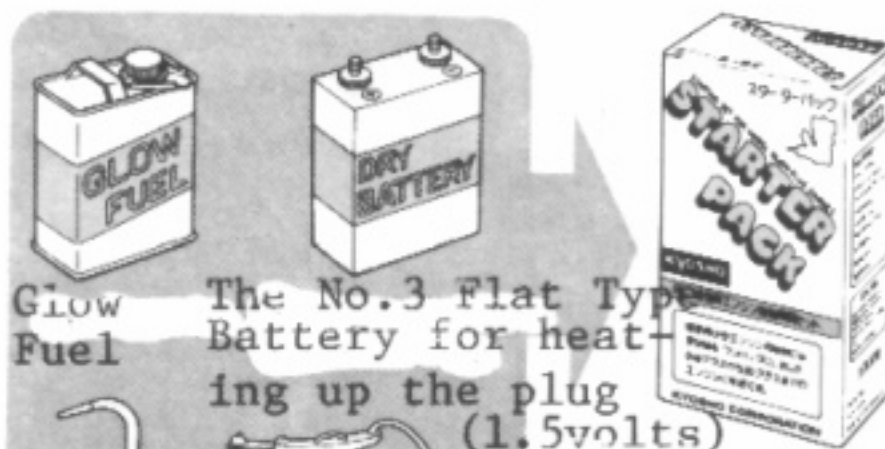
The following .21 size engines can be used for this model car.

OS-21VFB

Enya 21CXL



## (Articles Required for Running)



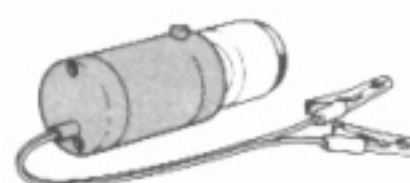
Glow Fuel

The No.3 Flat Type Battery for heating up the plug (1.5volts)

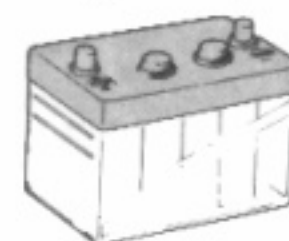
Fuel Bottle w/siphon

Ignition Cord

Starter Pack (Kyosho offers the "Starter Pack", a set of items as shown at left, all are needed for starting an engine.)



Electric Starter



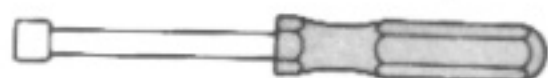
12V Battery

## (Required Tools)

A allen wrench, grease and locktite applied are included in the kit.



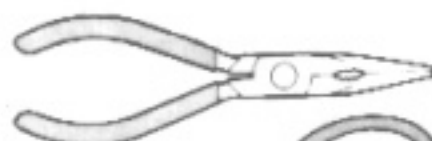
Philips Screw driver



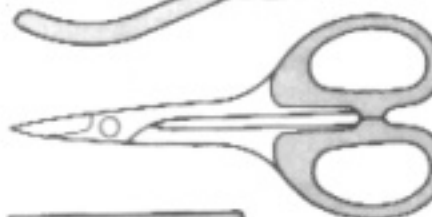
Box Driver (For M4, M3 & M2 Nut)



Sharp Hobby Knife



Needle Nose Pliers



Round Cutter



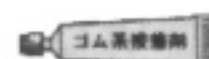
Sander



Awl



Plug Wrench (You will use this tool when checking the plug or assembling.)



Rubber Cement



Instant Glue



Polycast Paint



Micron Line Tape

Brush

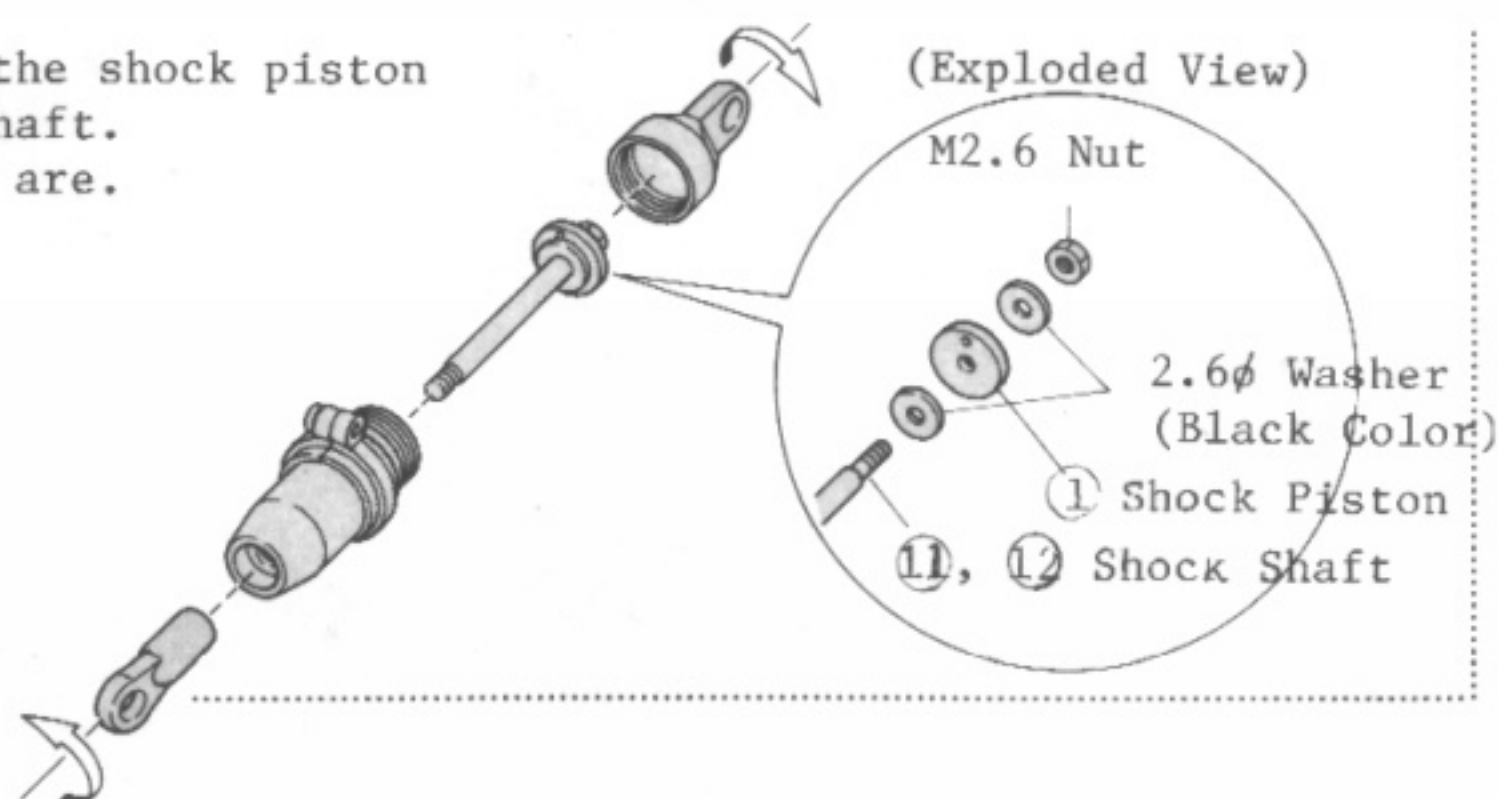
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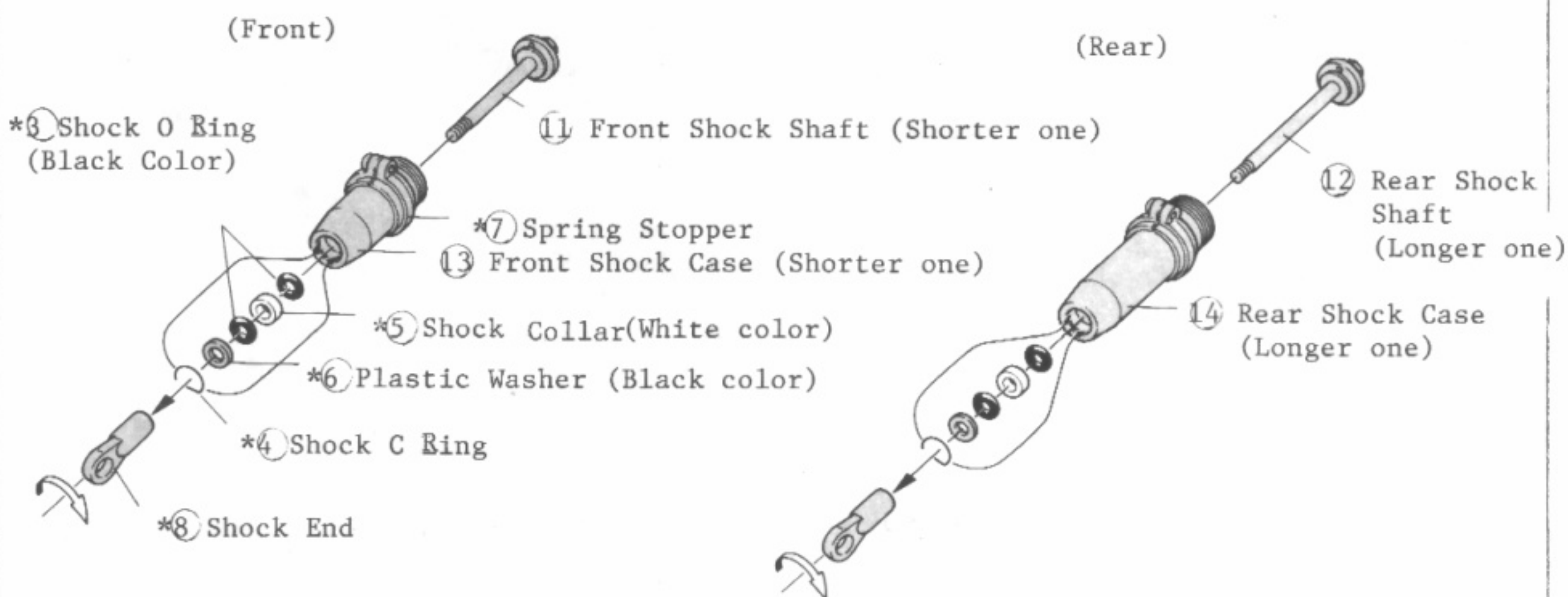
# 1 ASSEMBLY OF SHOCK

Disassemble the four shocks as shown, which are contained in a blister pack in a temporarily assembled form.

Do not break up the shock piston from the shock shaft.  
Use them as they are.

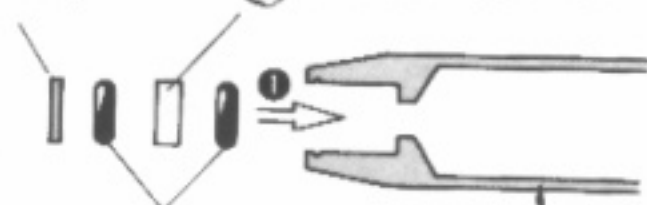


\*The parts indicated with the \* mark will be used for both front and rear wheels.



Assemble it in order from 1 to 4.

⑥ Plastic Washer (Black Color) ⑤ Shock Collar (White Color)



\*③ Shock O Ring (Black Color)

⑬, ⑭ Shock Case

Fit the C ring.

(Be careful not to lose it.)



Fit it into this groove.

\*④ Shock C Ring

Put the shaft through the shock case and screw in the shock end.

⑧ Shock End



Screw it in.

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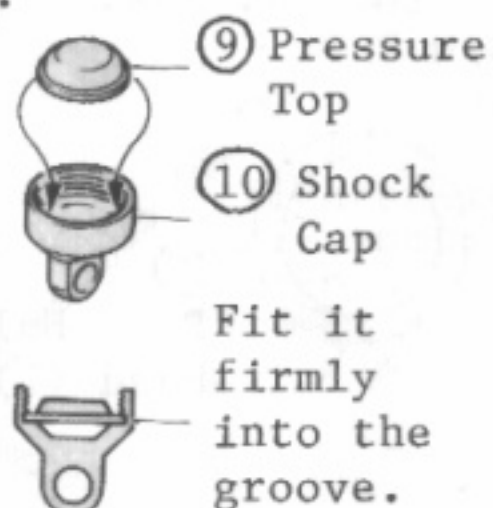


## 2 FILLING SHOCK WITH OIL

(Shock Oil) You will find two kinds of oil in the kit. Use them in a way stated as follows:  
Yellow One ... for Front Shocks    Green One ... for Rear Shocks

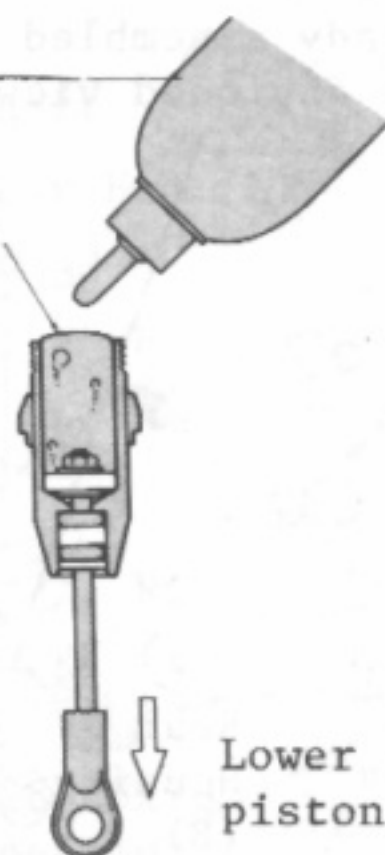
### (Fitting of Pressure Top)

Fit the pressure top (9) into the shock cap (10).

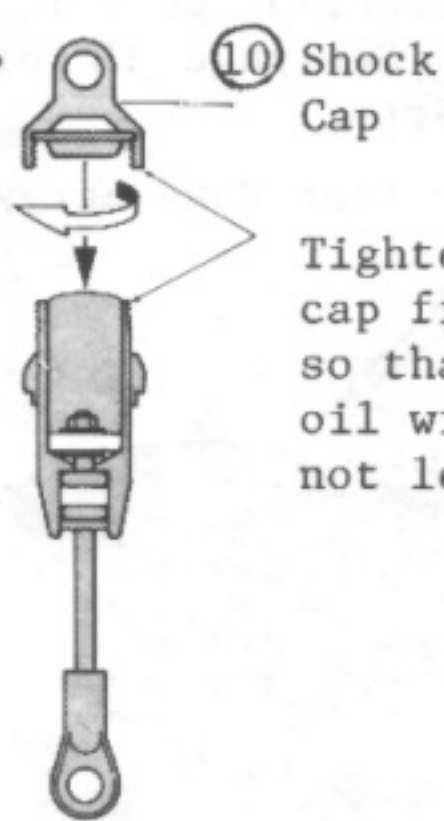


### 1. Shock Oil

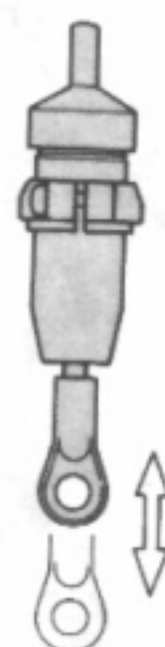
Fill it with the oil to slightly above the brim.



### 2.



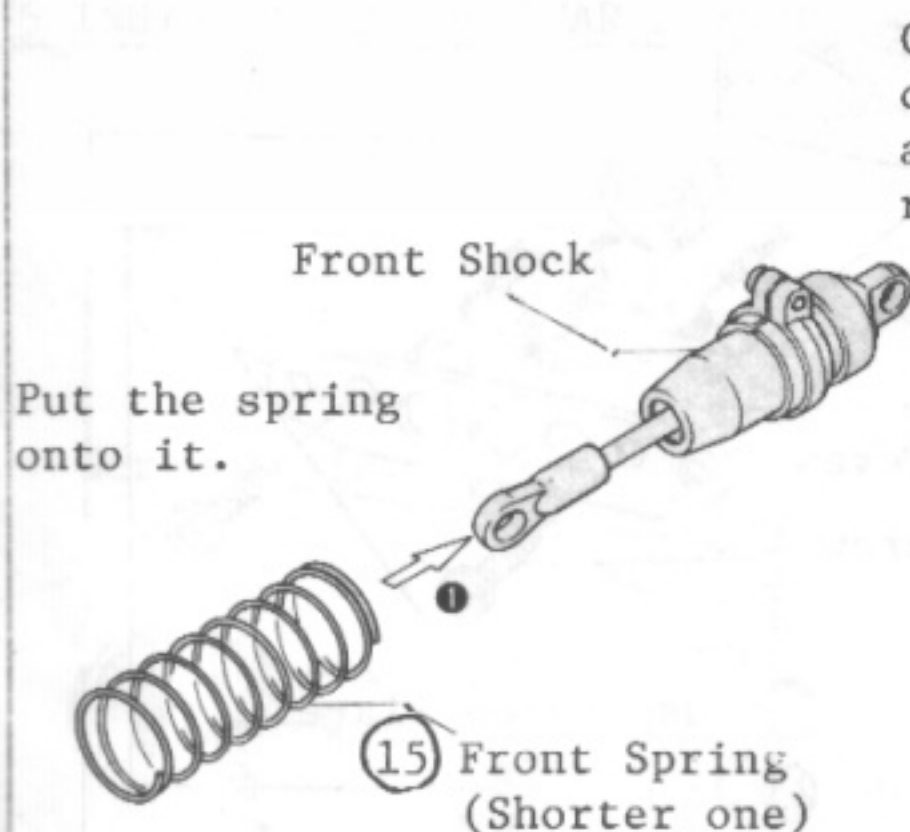
### 3.



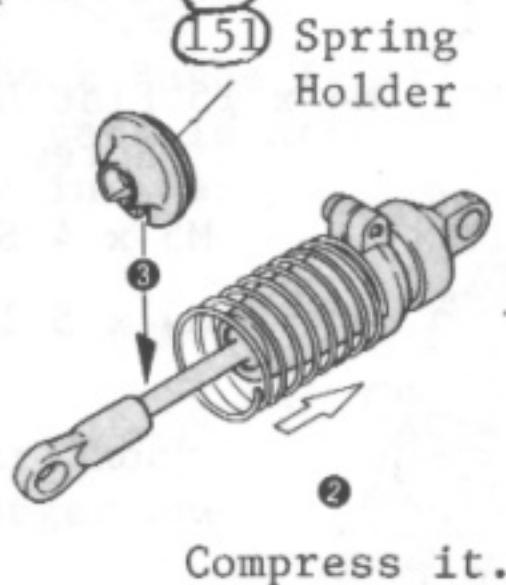
1. Lower the piston to the bottom and pour the oil little by little. Move the piston up and down slowly in order to drive the air bubbles towards the upper position.
2. Keep the piston in the lowest position, and tighten the shock cap (10) letting excessive oil spill over.
3. Move the piston up and down to confirm that it operates smoothly.

## 3 INSTALLATION OF SHOCK SPRING

The shorter spring is for the front wheel, and the longer one for the rear.

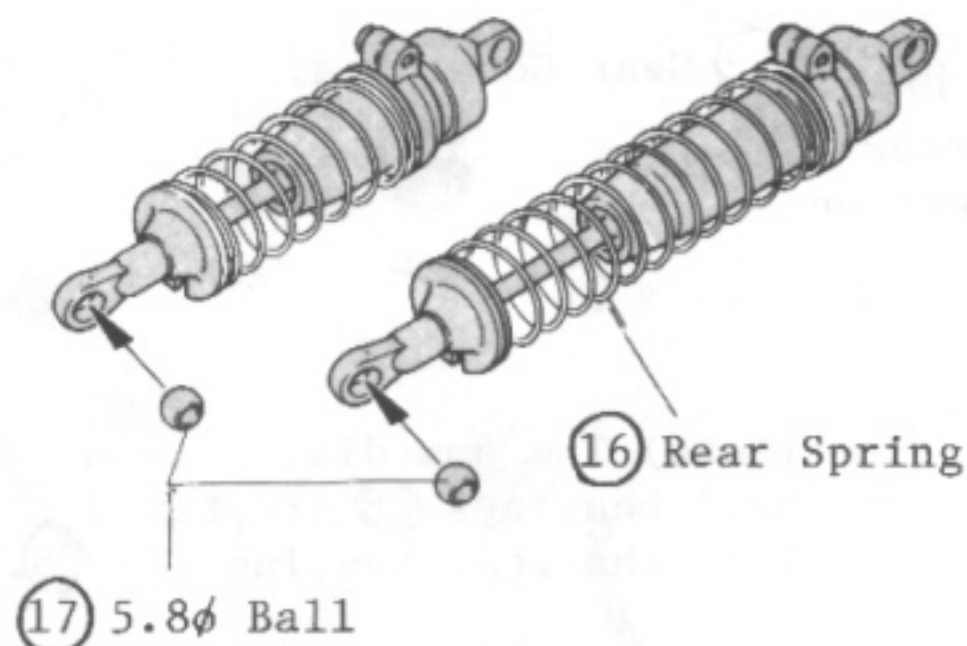


Complete the assembly by compressing the spring and putting the spring receptacle (151).



\*Front Shock (Shorter one)

\*Rear Shock (Longer one)



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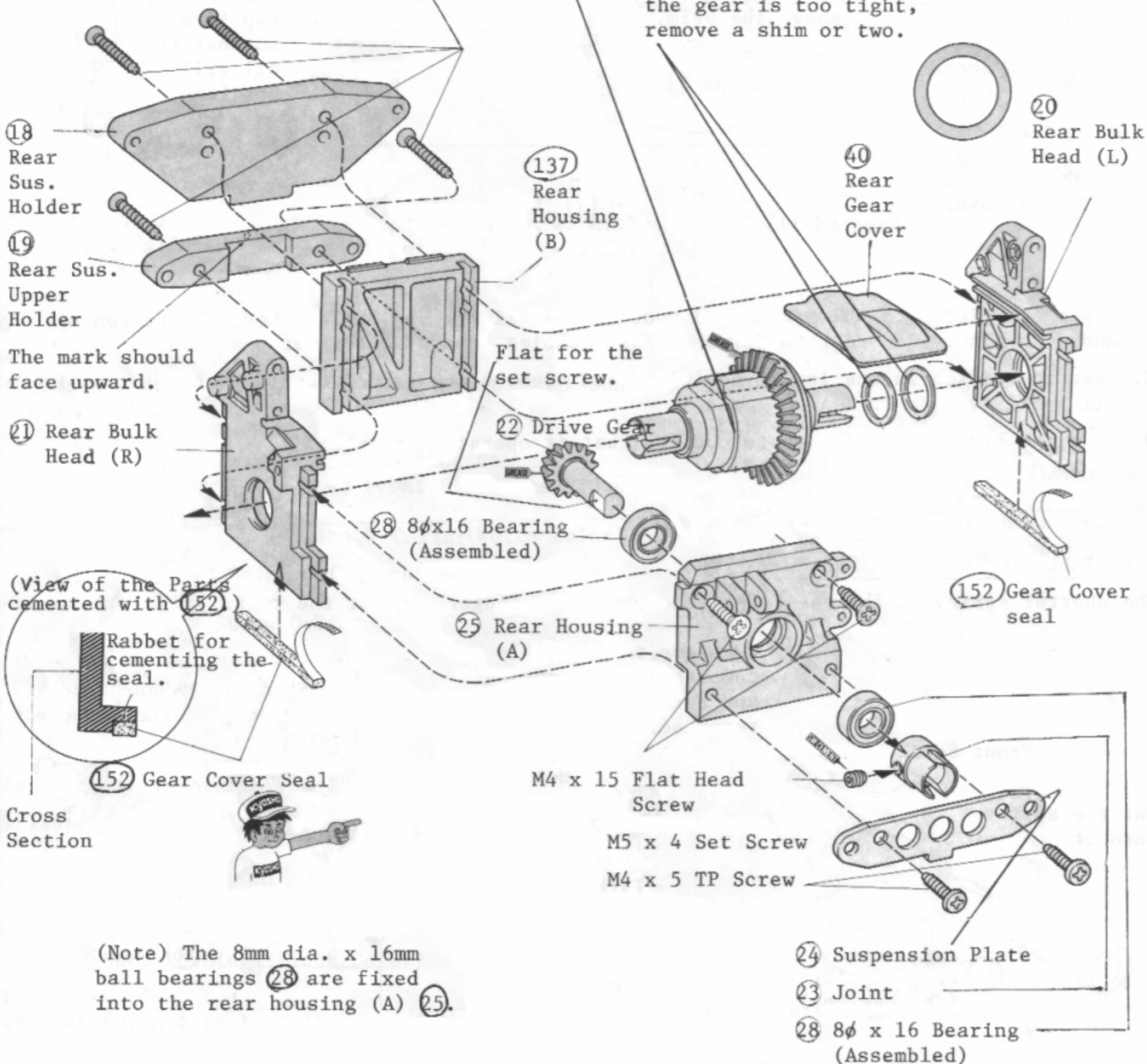


The differential gear is already assembled in the kit. See page 18 for the exploded view of the parts.

M4 x 25 TP Flat Head Screw

When the backlash of the gear is too tight, remove a shim or two.

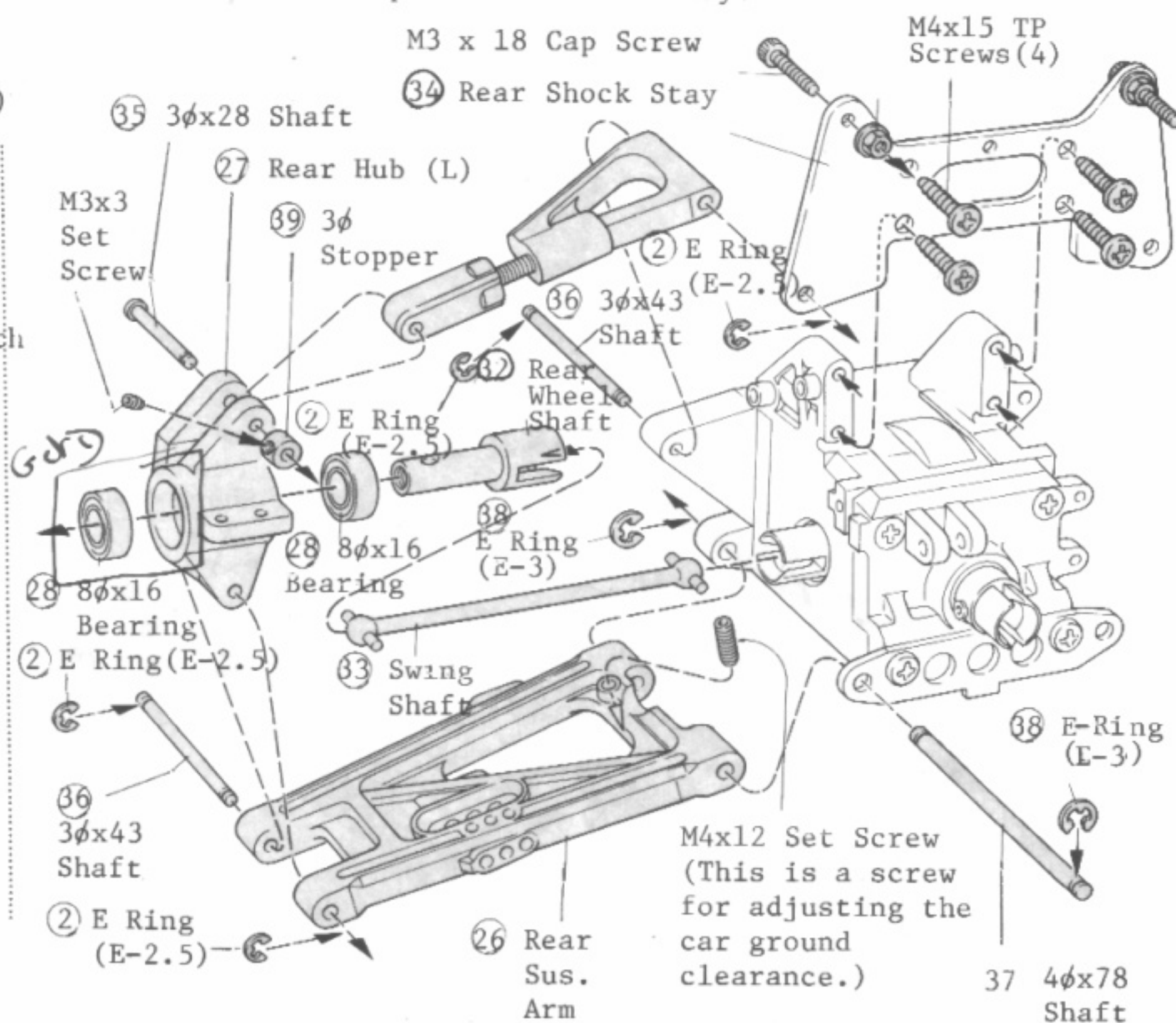
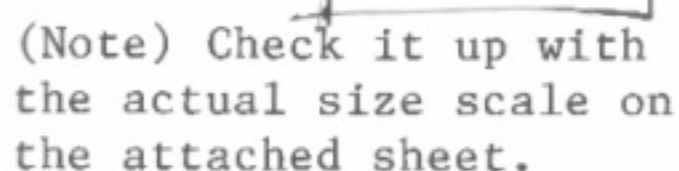
12 $\phi$  x 10 Shim (Actual Size)





(Assembly of Upper Rod)

The illustration shows the right side portion, but assemble left side counterpart in the same way.



## (Torque Rod)

42 6.8φ Ball

73 Tie Rod

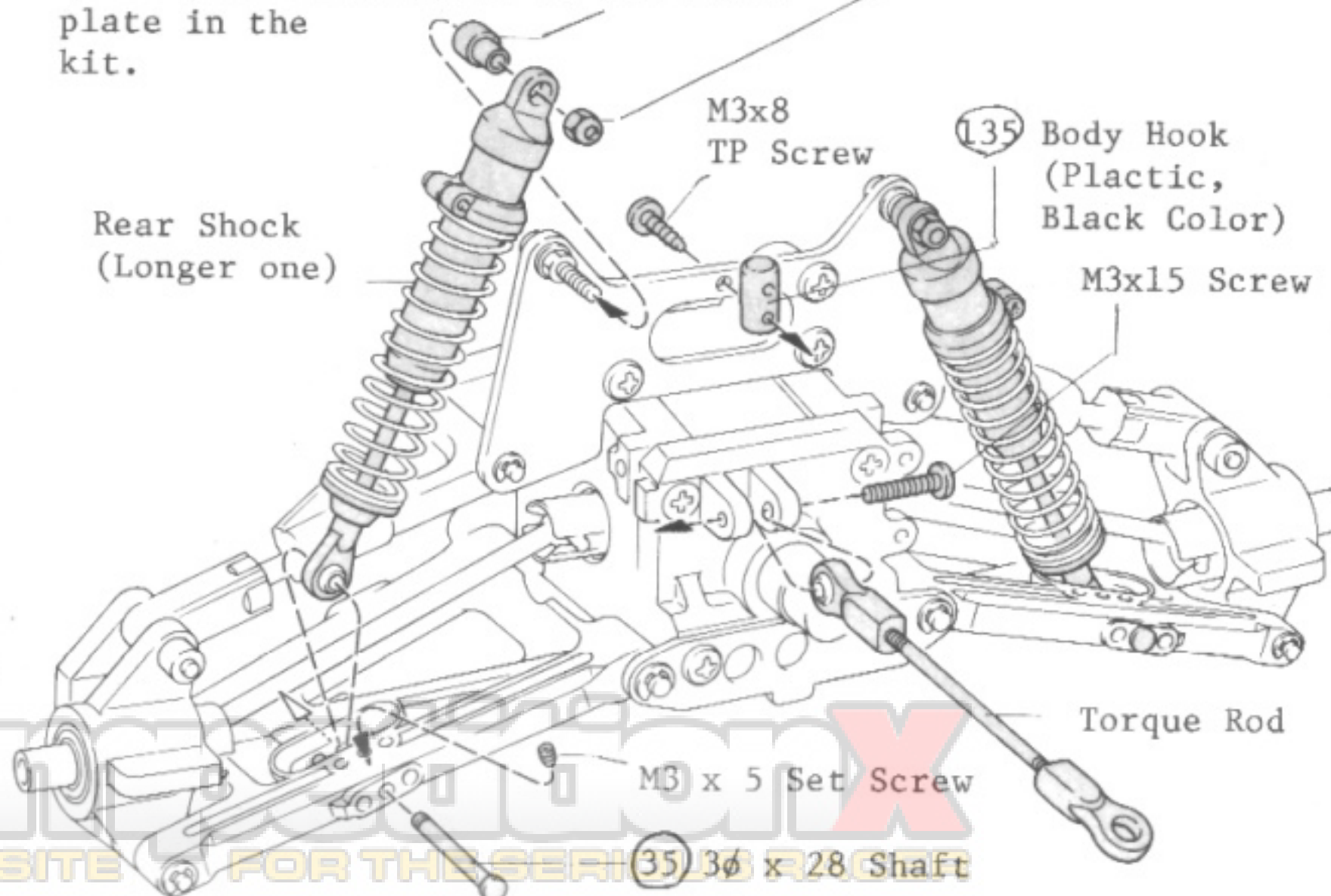
43 6.8φ Ball End

About 40mm

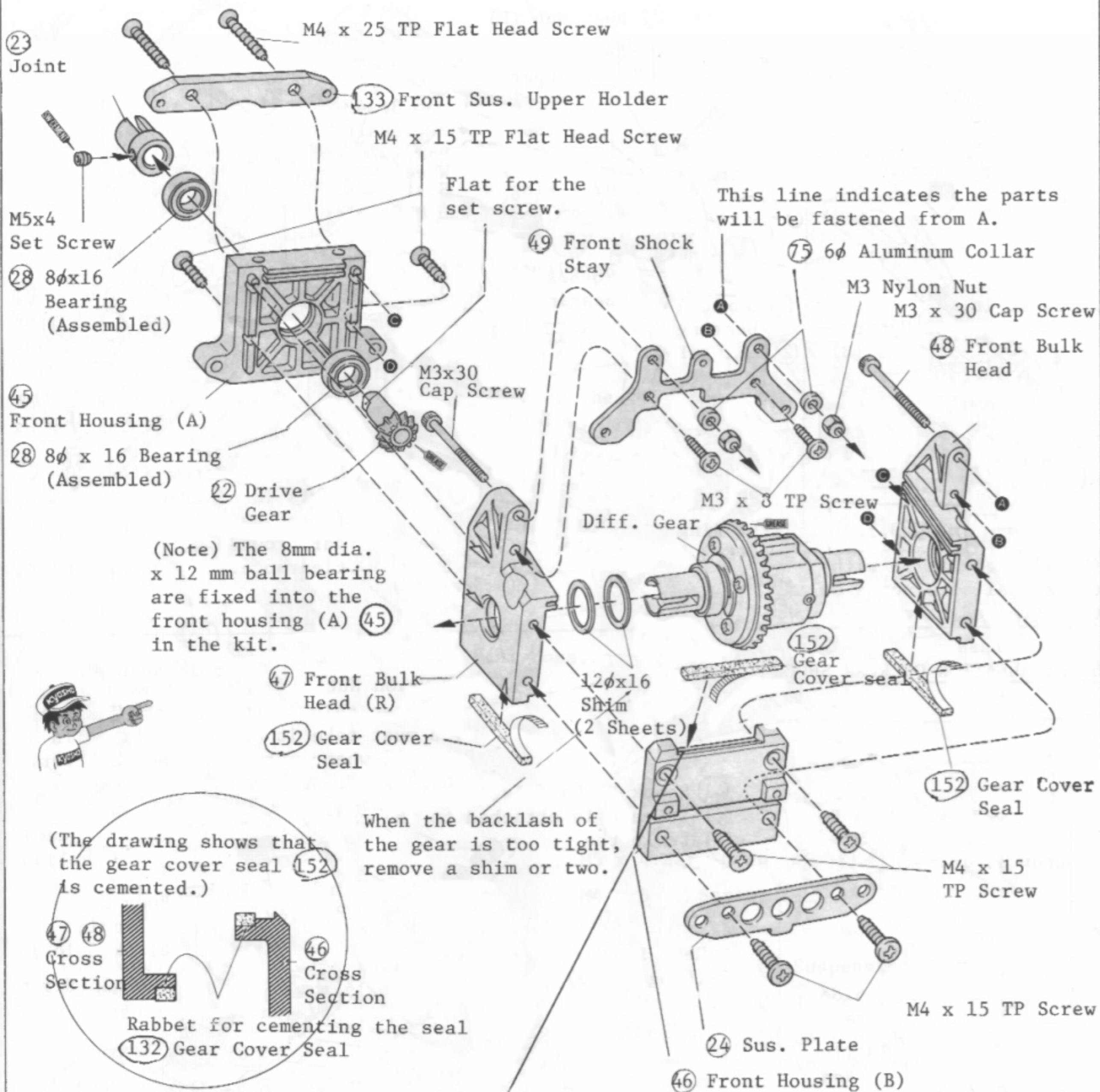
Screw it in.

(Tighten this nut temporarily, since you must take it off again later in step 12 when installing the roll bar.)

④1 Shock Bushe (Plstic, Black Color)  
(This part is attached to the radio  
plate in the  
kit.







The gluing position is detailed in the drawing above.



(Upper Rod)

③1 M5 x 35  
Shaft

Screw  
it in.

2.5mm Allen Wrench

(144) Upper Sus.  
(C)

Screw it  
in.

about 8mm

### ⑥7 Front Gear Cover

⑤1 Knuckle  
Arm(L)

30 Upper Sus. (B)

50 Knuckle Arm (R)

Ⓐ Mark here

M3 x 3 Set Screw

39 3ø Stopper

54 King Pin

⑤2 Hub Carrier(R)

Right

② E Ring (E-2.5)

38  
E Ring  
(E-3)

53 Hub  
Carrier  
(L)

Left

36 3 $\phi$ x43 Shaft

E Ring  
(E-2.5)

147 4φ x 67  
Shaft

38 E Ring (E-3)

M4 x 12 Set Screw  
(This is a screw for adjusting the car  
ground clearance.)

(138) Front  
Sus. Arm

③⑥ 3øx43 Shaft

② E Ring (E-2.5)

②8 8øx16 /  
Bearing

65 Universal  
Swing  
Shaft

⑤ King  
Pin

35 3øx28  
Shaft

④ Shock Bush (Plastic, Black color)  
This part is attached to the radio plate in the kit.

M3 Nylon Nut

Front Shock  
(Shorter one)

M3 x 5 —  
Set Screw

35 3ø x 28 Shaft



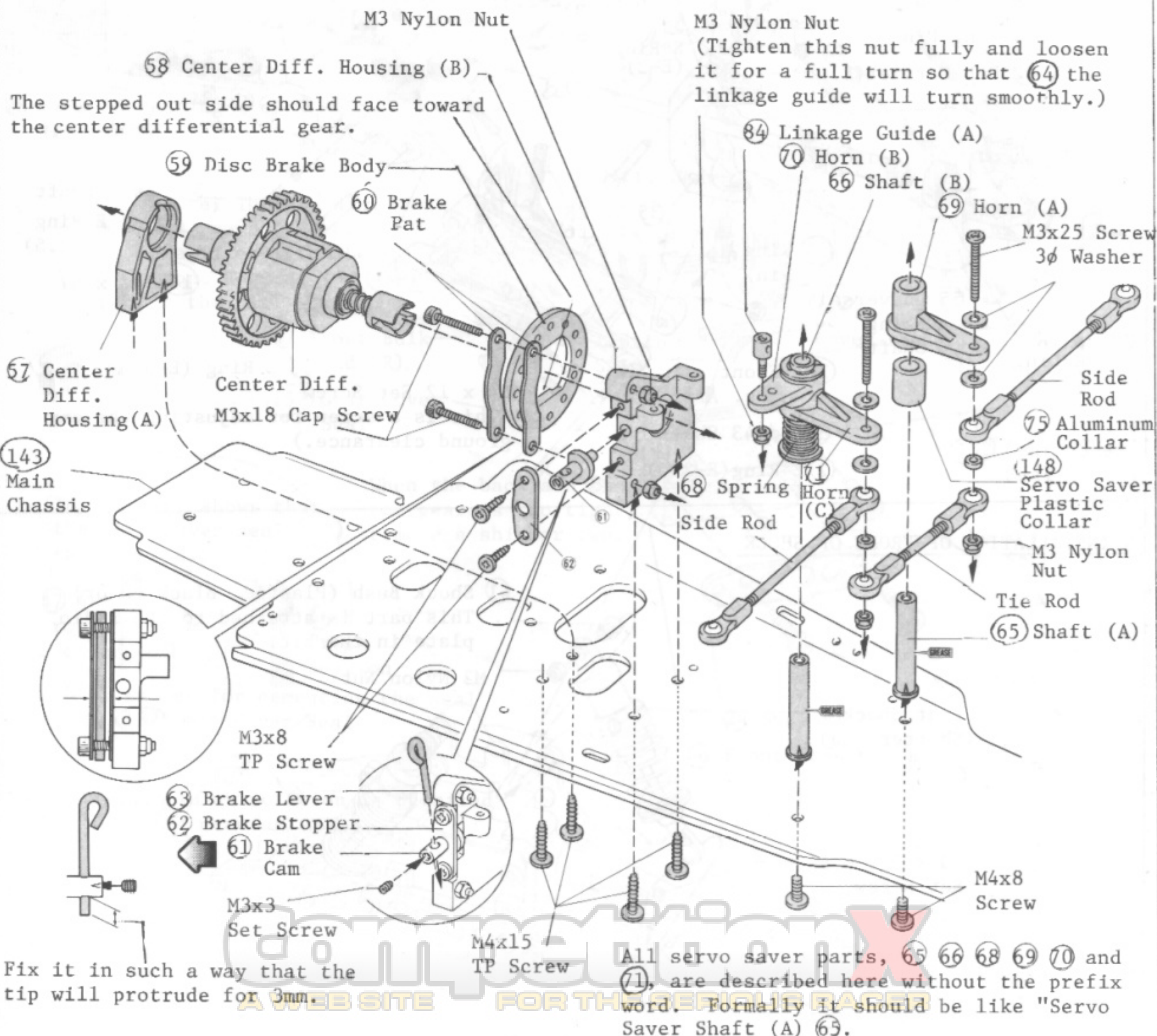
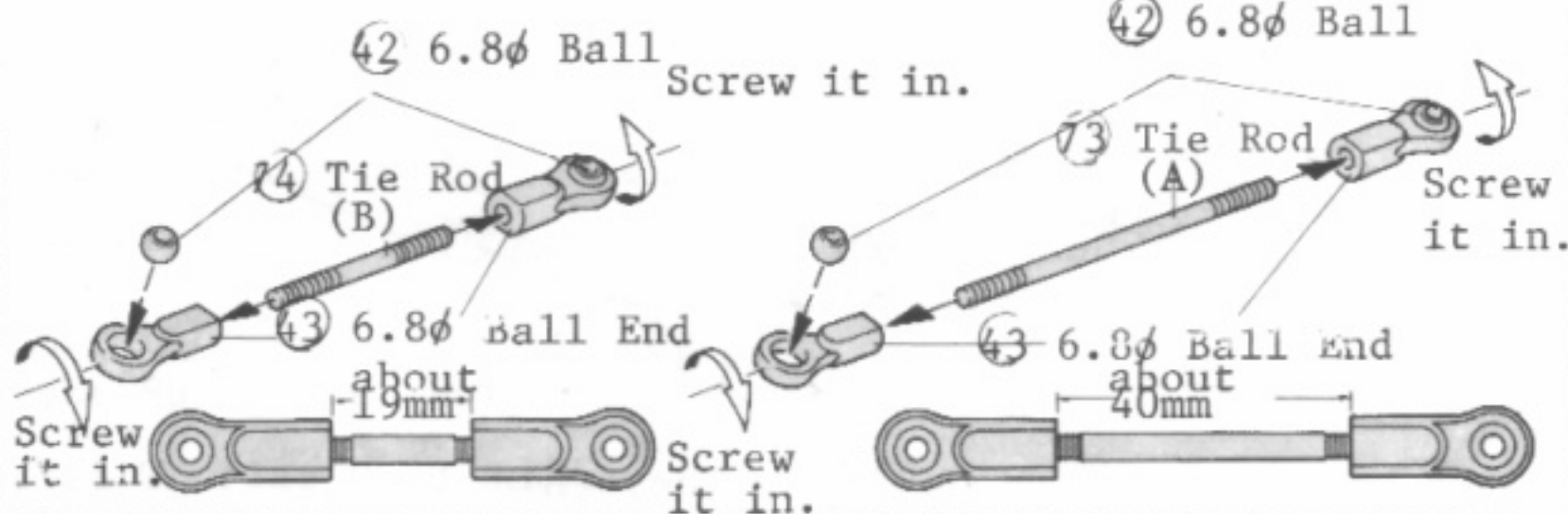
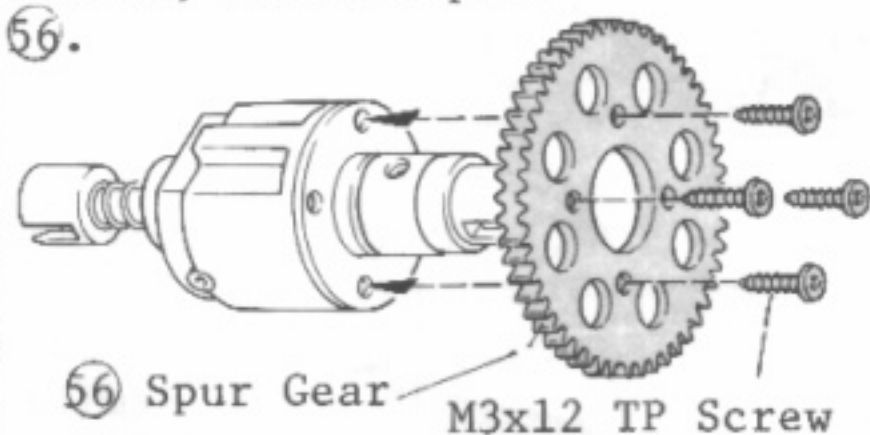
# 10 INSTALLATION OF BRAKE AND SERVO SAVER

(Center Diff.)

(Tie Rod)

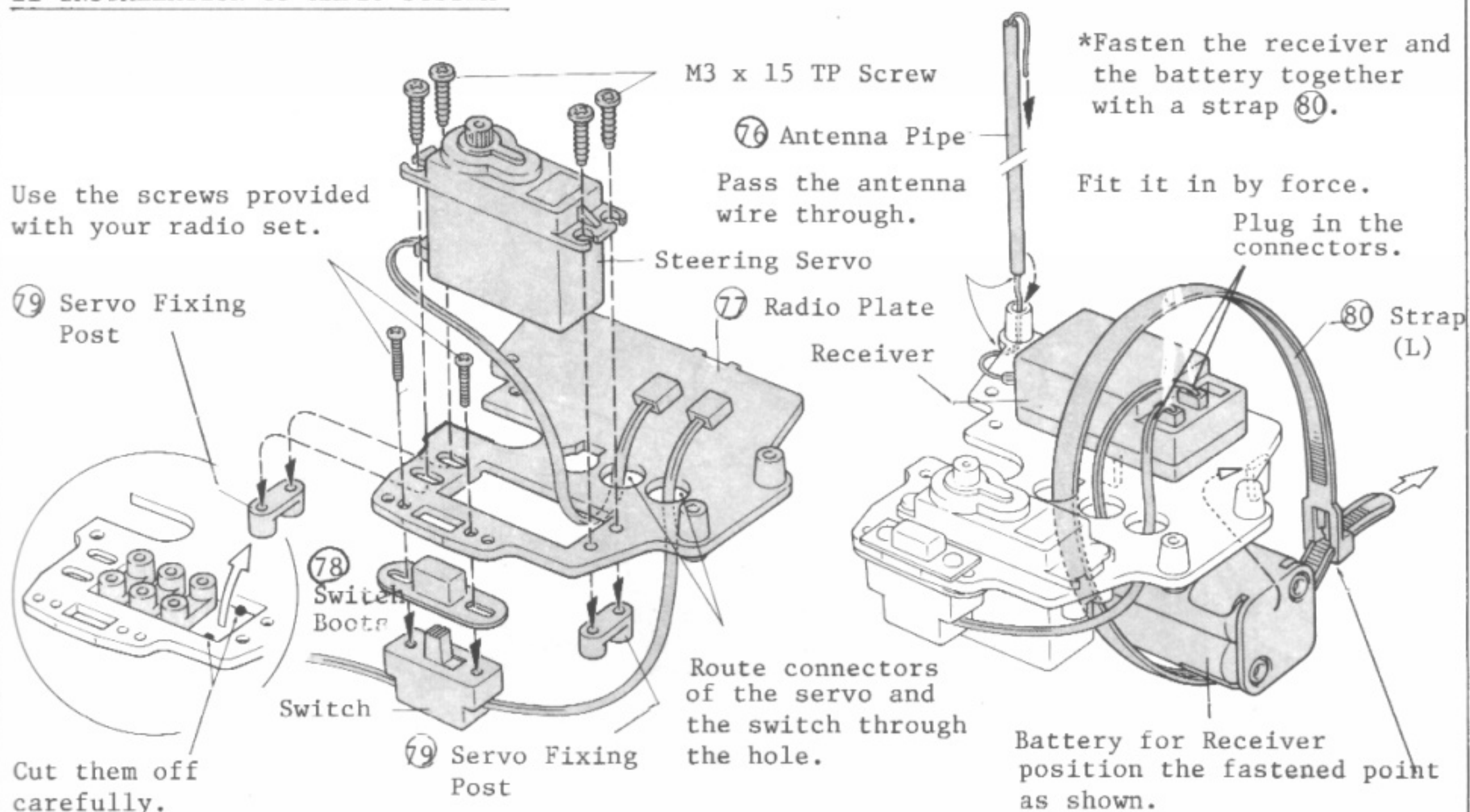
(Side Rod) Assemble two of these for the right and left sides.

Take off two of M3 x 8 TP screws, fix the part 56.

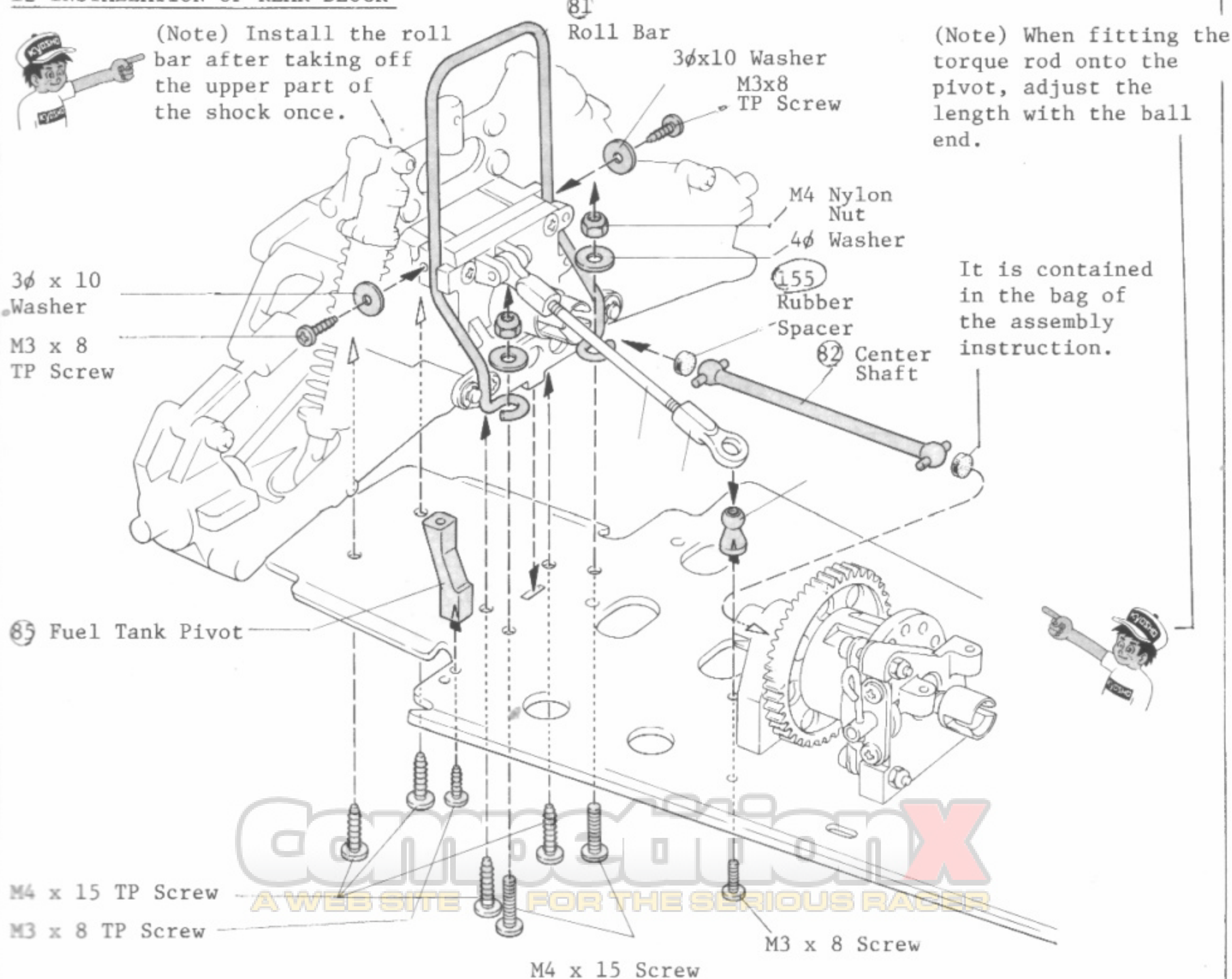




## 11 INSTALLATION OF RADIO SYSTEM

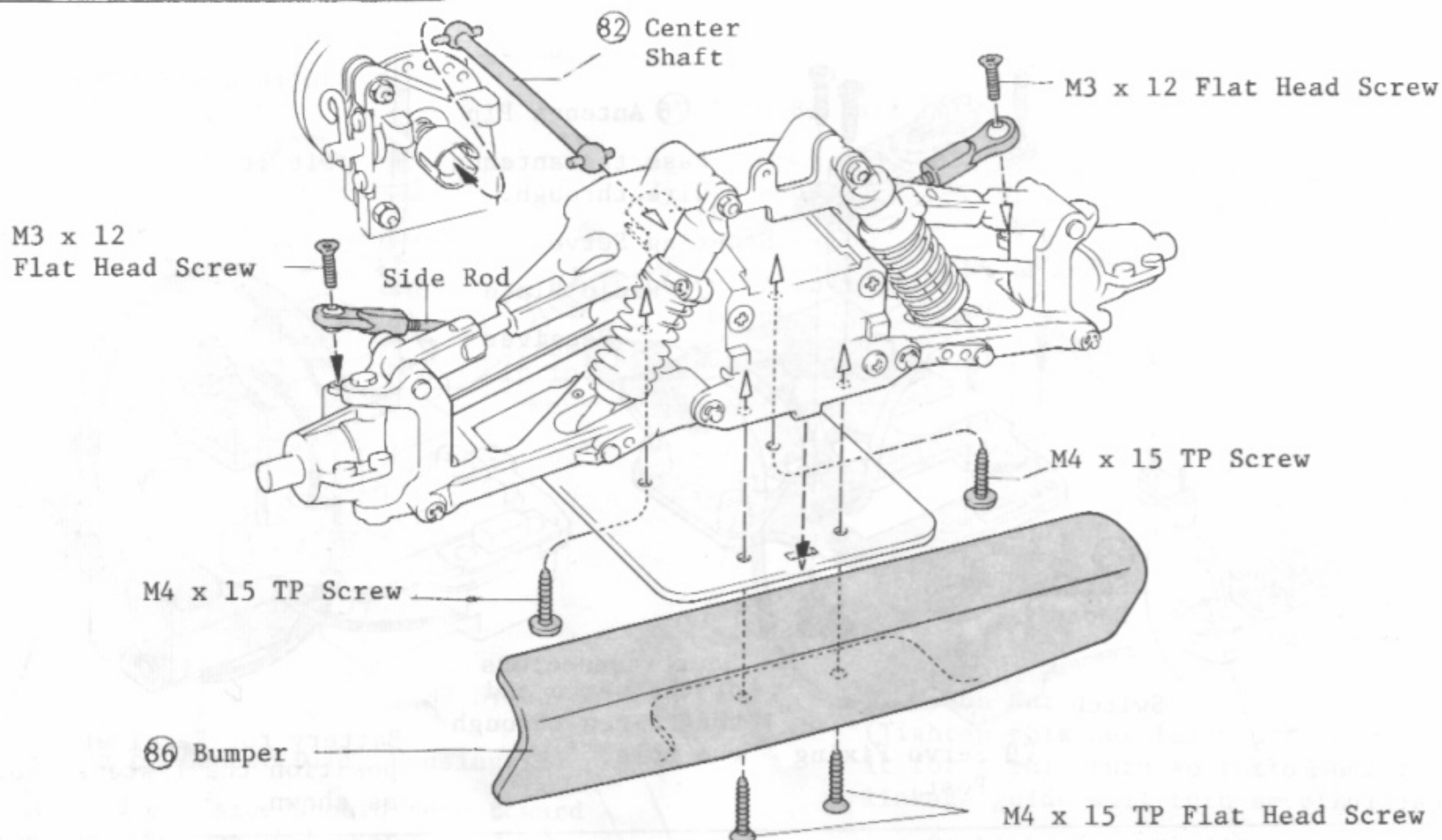


## 12 INSTALLATION OF REAR BLOCK





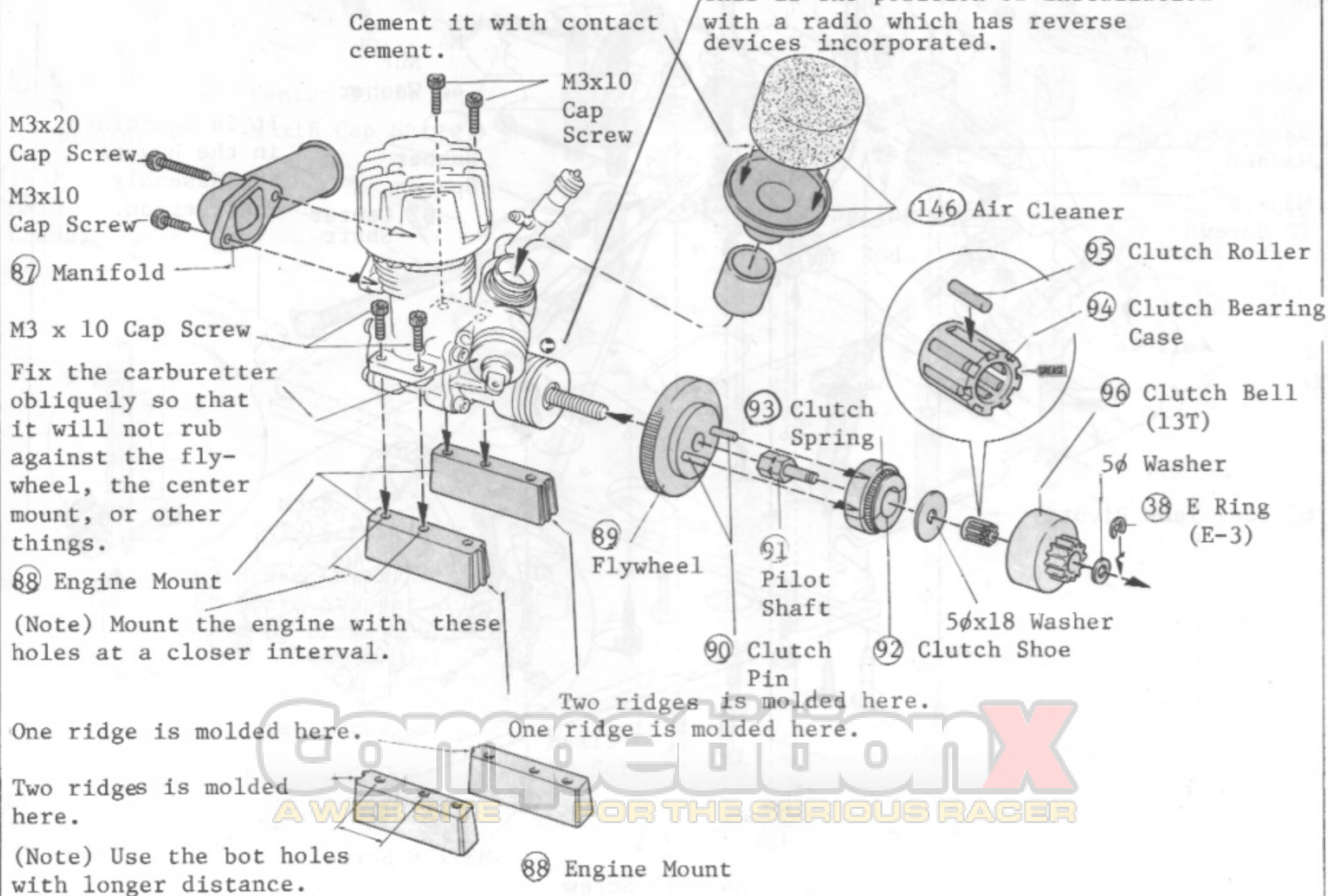
### 13 INSTALLATION OF FRONT BLOCK



### 14 INSTALLATION OF CLUTCH

(Note) When your transmitter is not provided with a reversing device (which makes the servo action go into reverse,) install the carburettor in the opposite direction.

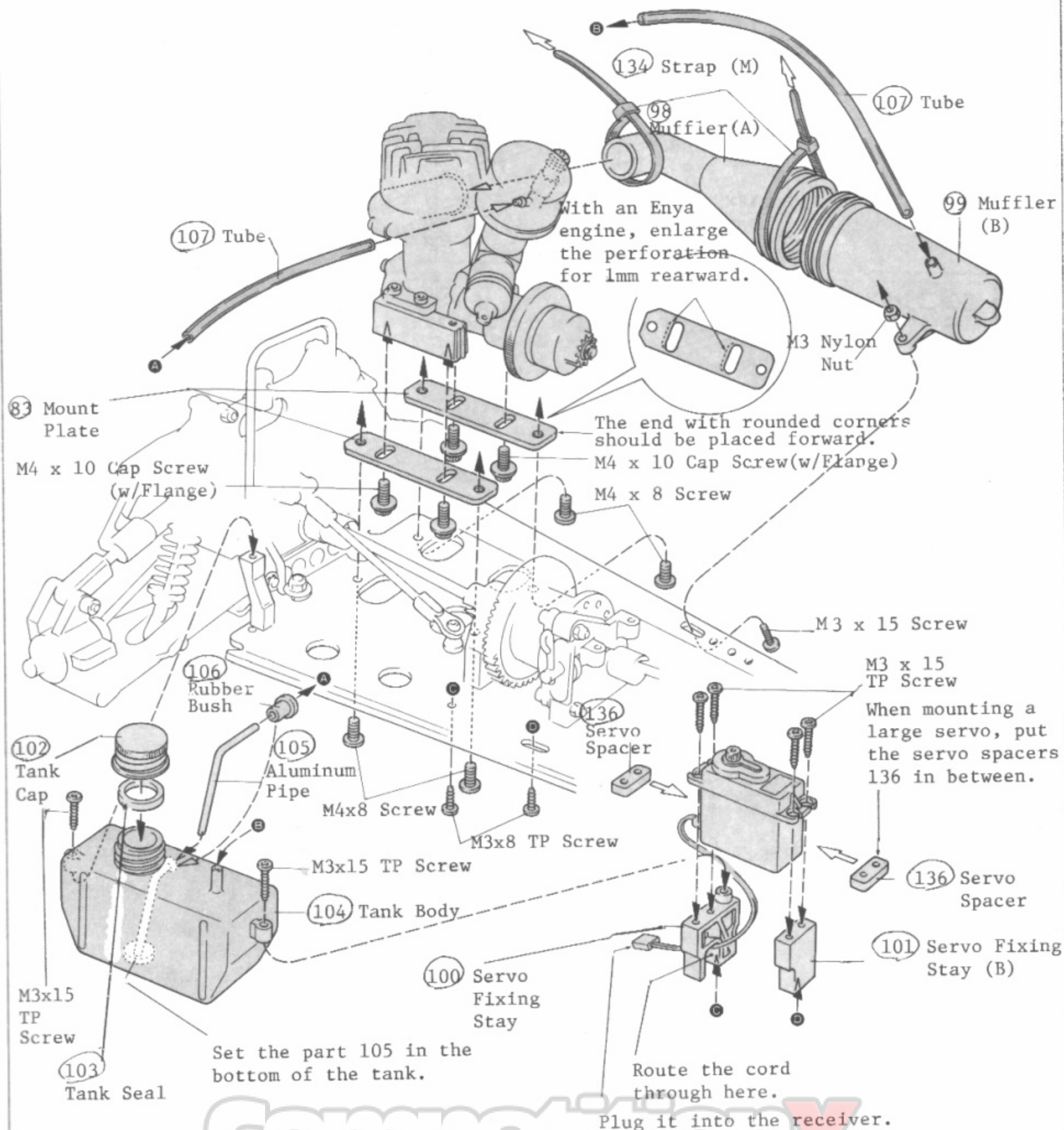
This is the position of installation with a radio which has reverse devices incorporated.





## 15 INSTALLATION OF ENGINE AND SPEED CONTROL SERVO

Saturate the air filter with the fuel by removing the filter from the carburettor and infiltrate the fuel into it. This is an important process for preventing dusts or sands from entering into it.



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## 16 INSTALLATION OF RADIO PLATE

Use the screws which came with your radio.

Servo Horn

M3 x 12 Screw

When fixing the servo horn, keep the servo in neutral.

Bend the steering control rod in accordance with the height of the servo.

(109) Steering Rod

M3 x 3 Set Screw

M4 x 15 Screw

M3 x 8 TP Screw

M4 x 15 TP Screw

(108) Plate Joint

(44) 8φ Aluminum Collar

## 17 SPEED CONTROL LINKAGE

M3 x 3 Set Screw

(111) Speed Control Spring

(142) Speed Control Rod

M3 x 3 Set Screw

(110) 2φ Stopper

Cut off the excessive portion.

(112) Linkage Guide (B)

(110) 2φ Stopper

Servo Horn

M2 Nut

(153) Brake Rod

M3 x 3 Set Screw

(110) 2φ Stopper

M3 x 3 Set Screw

M3 x 3 Set Screw

(110) 2φ Stopper

(110) 2φ Stopper

(Note) The illustration shows the way of linkage work when a reverse servo is employed. With a normal action servo, arrange it as shown in the drawing at bottom-right.

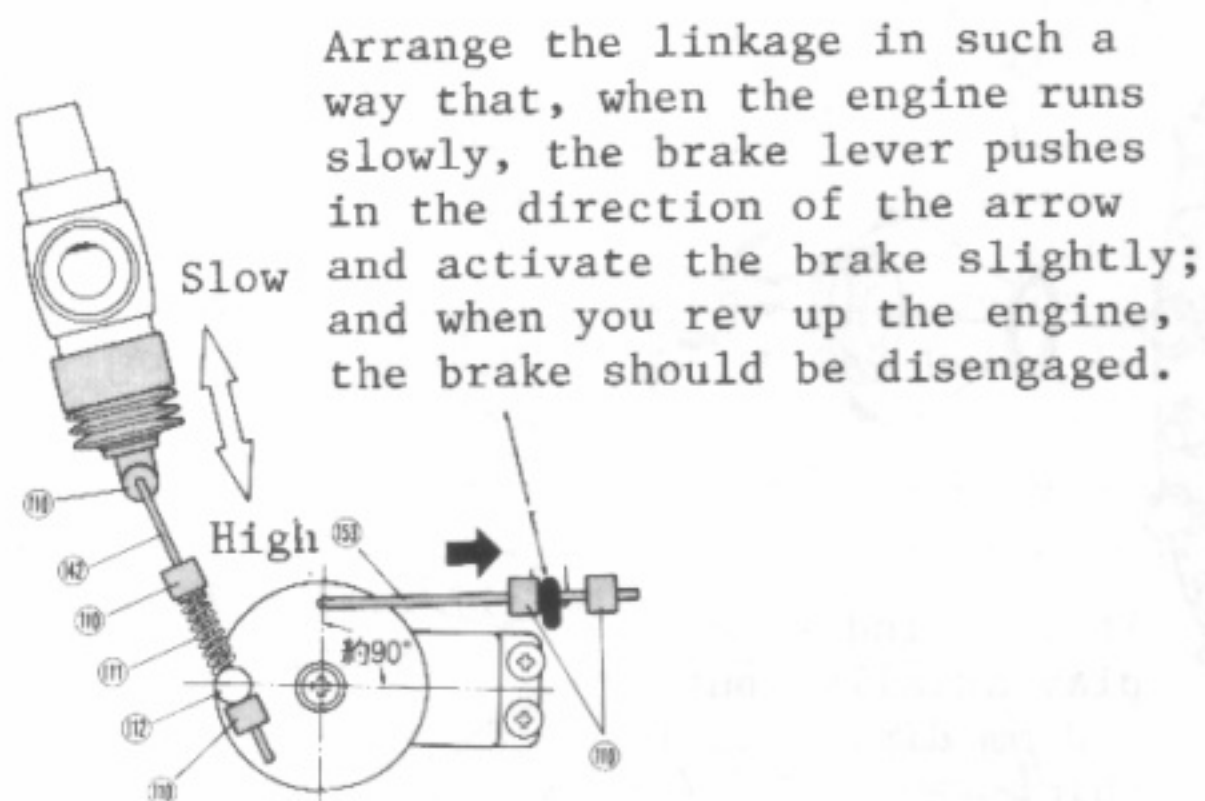
Use the screws which came with your radio.

Tighten this nut all the way, then turn it back for a rotation, so that the part (112) will run smoothly.

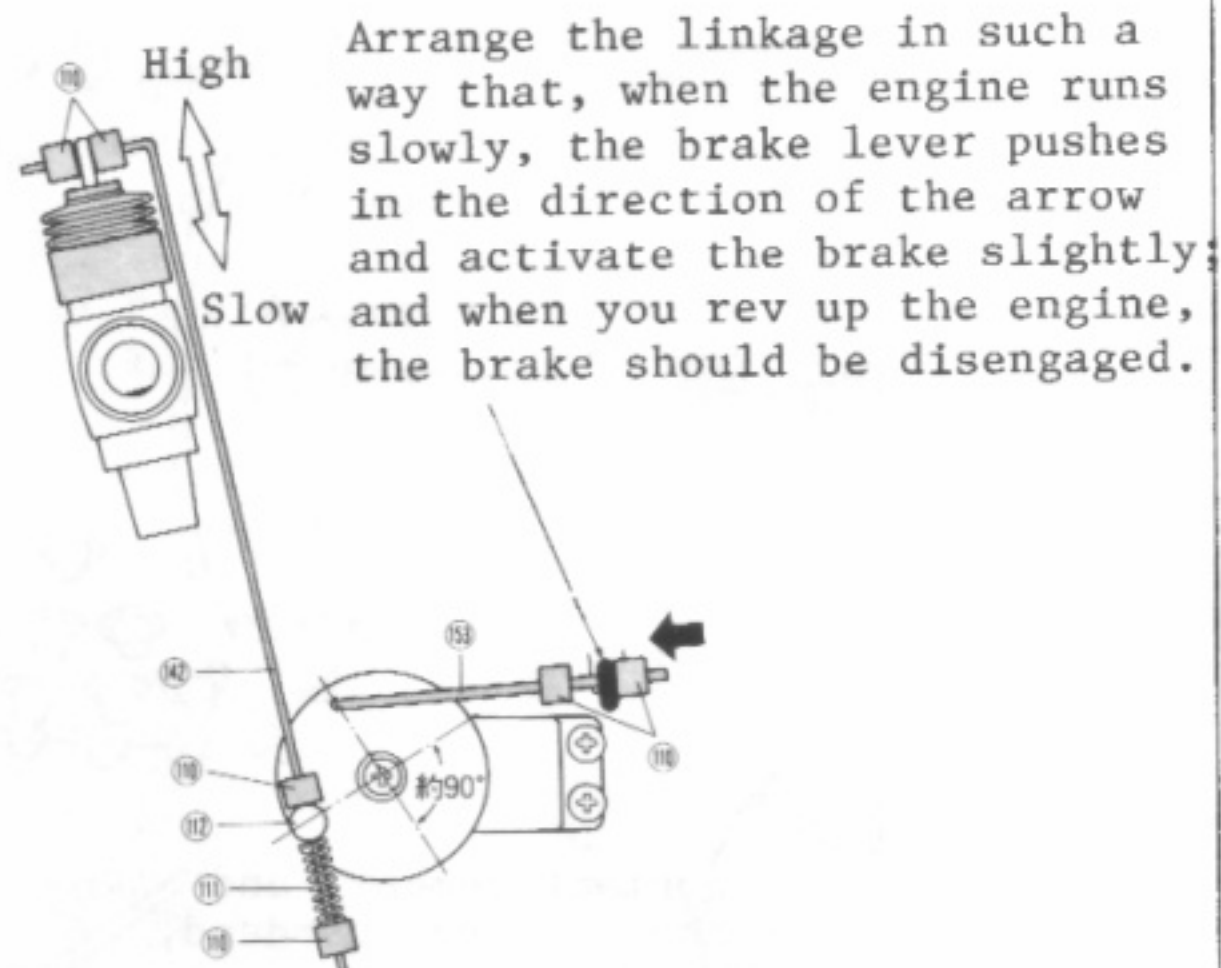
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\*This drawing indicates that the engine runs at slow speed with a reverse servo mounted.

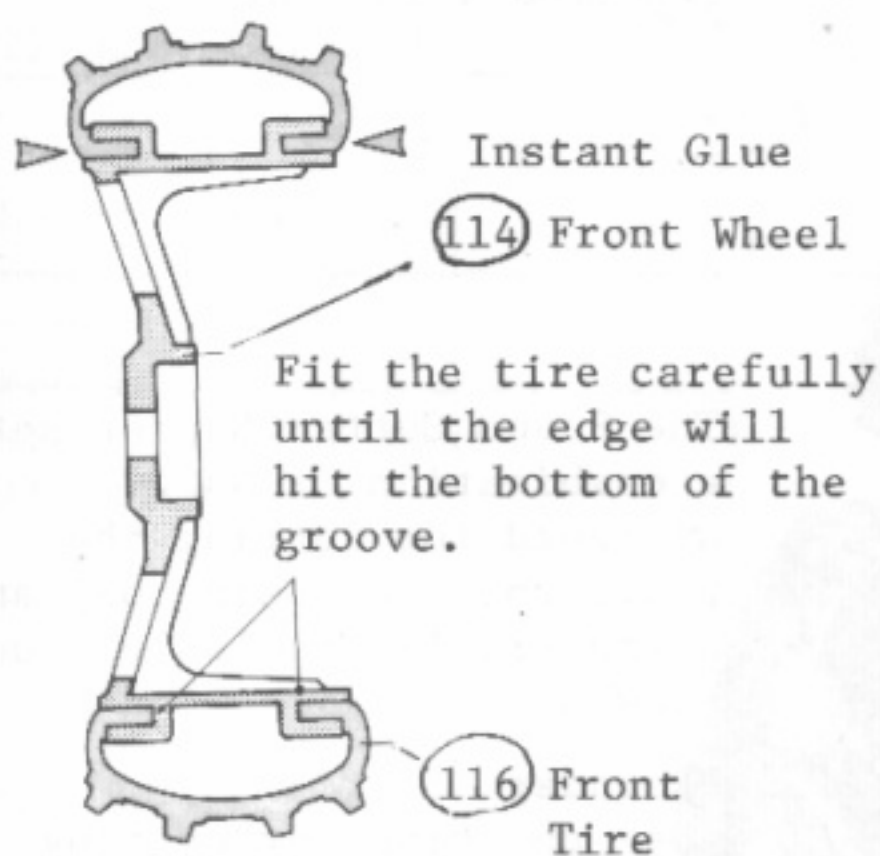


\*This is a state of slow-running with a normal servo.



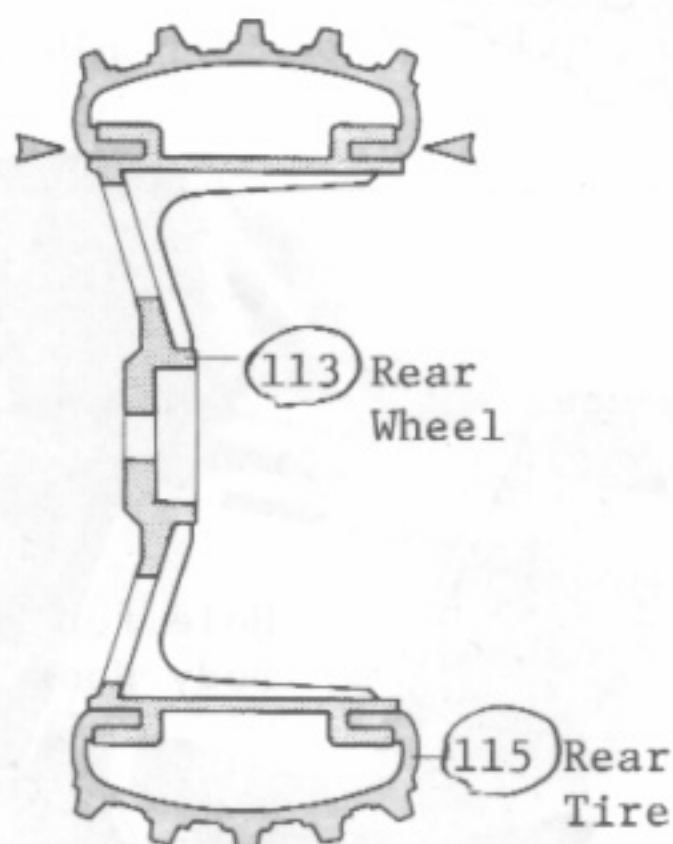
## 18 CEMENTING OF TIRE AND WHEEL

(Front)



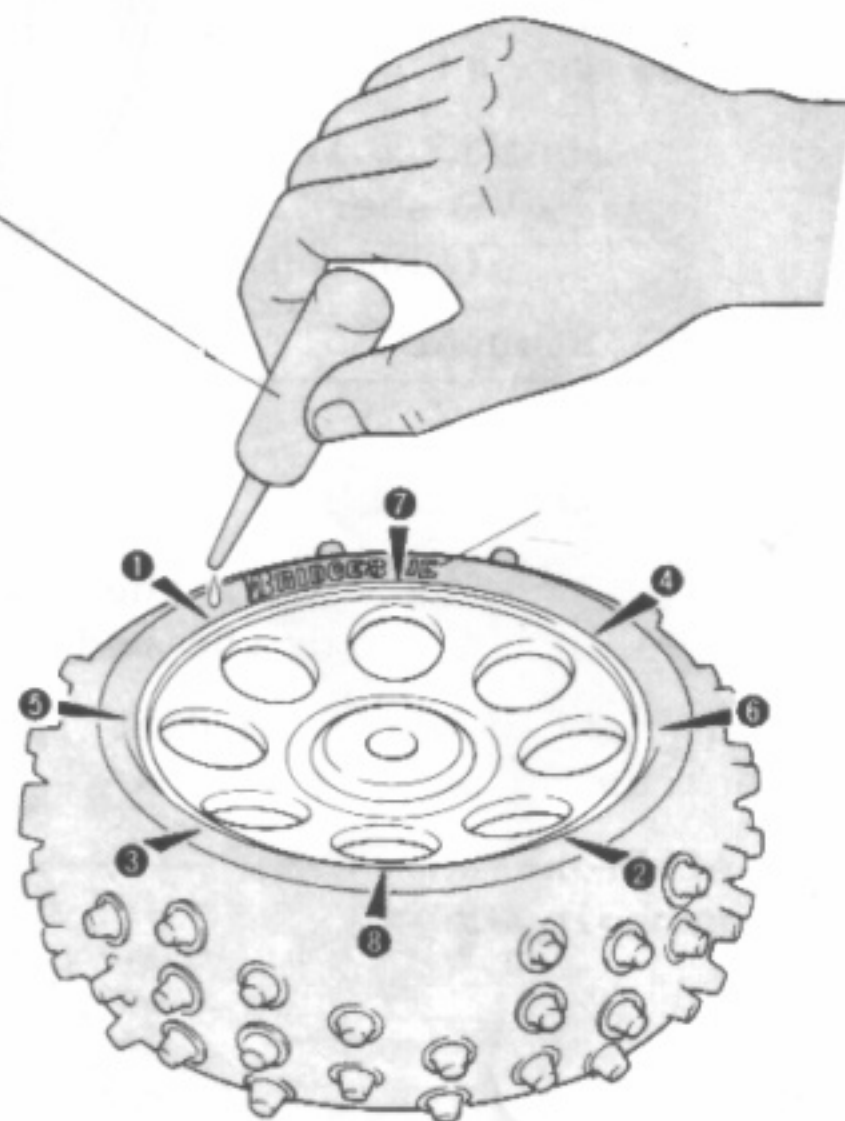
Apply Cyanoacry glue little by little by holding the tire with fingers.

(Rear)



(How to Cement)

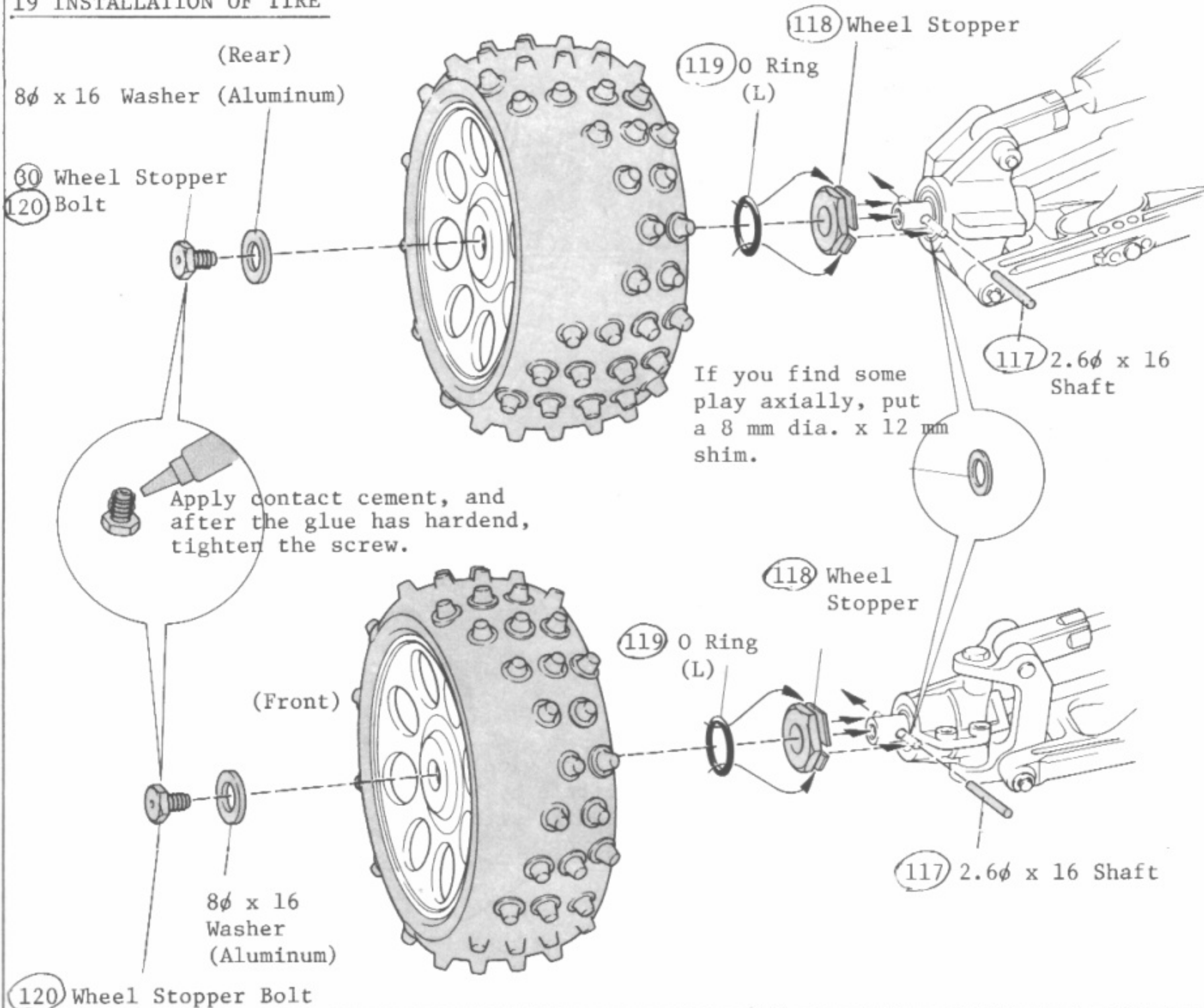
Spot-cement in order of the numbers, then apply cement all along the edge.



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## 19 INSTALLATION OF TIRE



## 20 CUTTING OF BODY

Here comes the engine head through the body.

Cut out a hole of 10 mm dia. for the antenna pipe.

Hole of Front Body Hook (Square hole)

Hole for Rear Body Hook (8φ)

121 Body

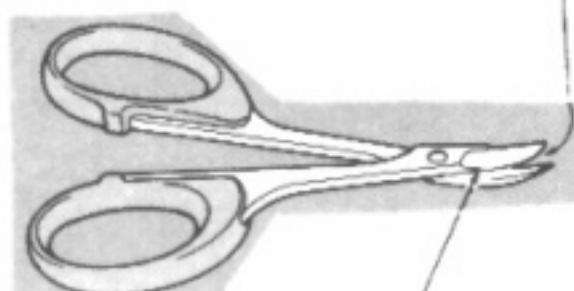
Cut out the shaded area and smooth the cuts with sandpaper.

Cut off the portion where the air cleaner may rub against.

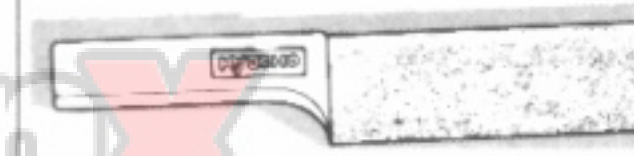
The Round Cutter/Sander set, a combination of snips designed for cutting the polycarbonate resin body and a sander, is available from Kyosho.

\*Rounder

Use the tips for cutting curved lines.



Apply the foot of blades for cutting straight lines.



\*Sander



## 21 PAINTING OF BODY

The body of this model is made of polycarbonate resin, transparent plastic sheet molded into the shape. You can expect better finish by painting inside of the body. For better adhesion of the finish, wash the body with neutral detergent and dry it thoroughly with care not to put any finger marks. When you plan to finish it in one color, just apply two or three coats of the color; if you like to carry out some color scheming, use masking tape or Micron Line tape to separate areas of different color and paint it from a darker color to the lightest all over the area in the end.

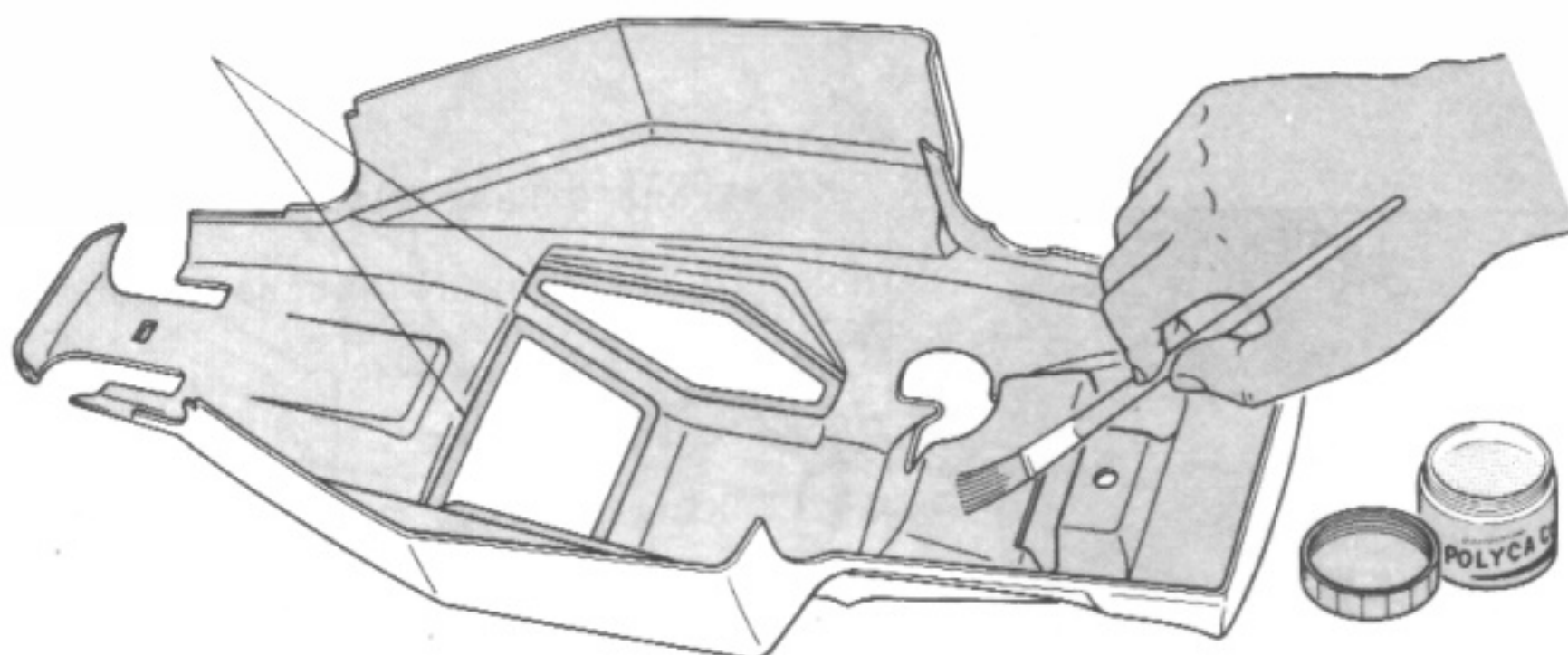
Mask the areas such as windows, where you would paint different colors, with a tape like the Micron Line Tape.



The Micron Line Tape can be used as masking tape and as a material to draw patterns. They are available in 6 different colors and 3 widths.



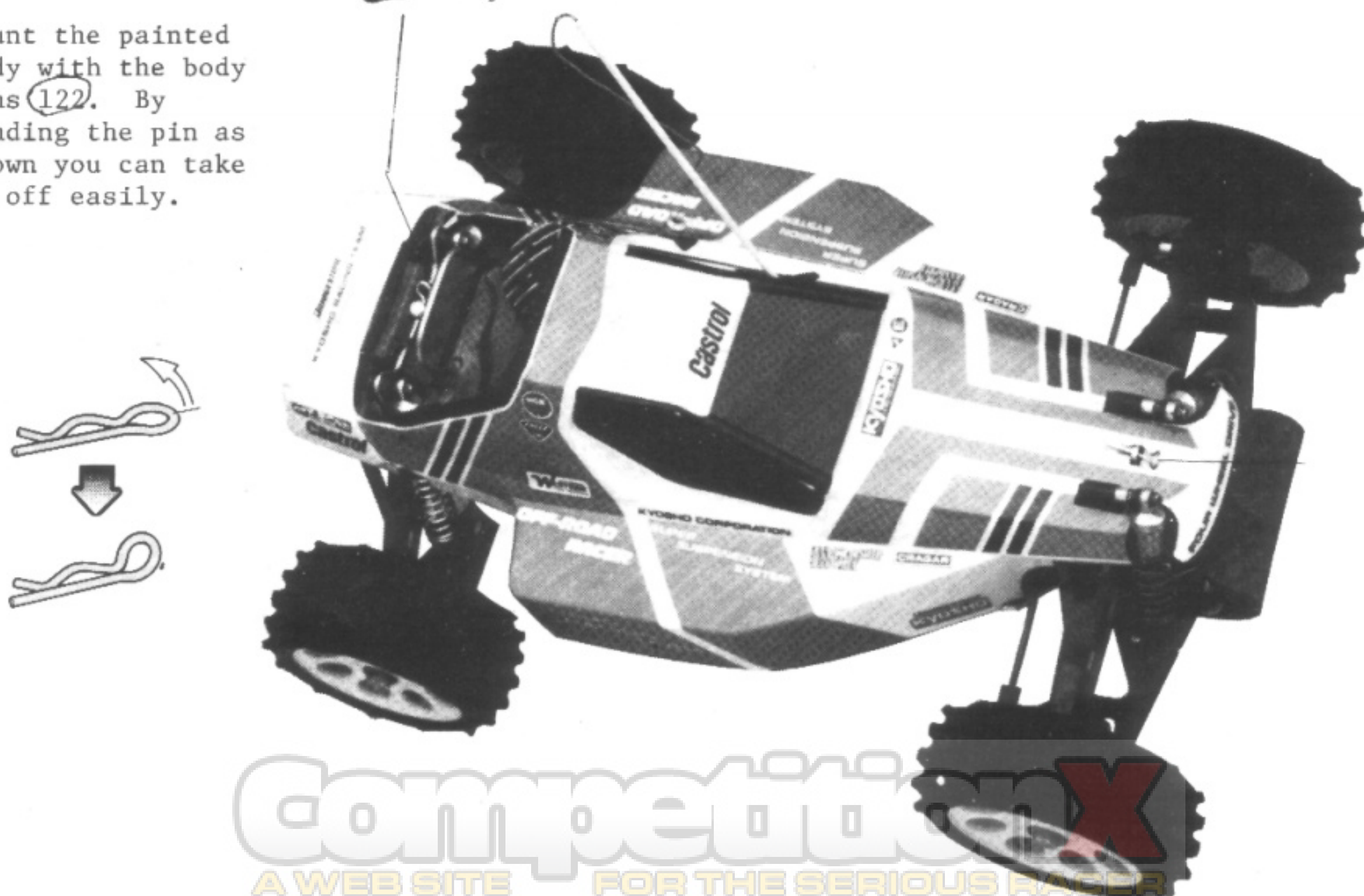
The polyca Colors are paints composed exclusively for painting polycarbonate resin. It is very easy to use. There are 12 different colors.



## 22 MOUNTING OF BODY

Mount the painted body with the body pins (122). By bending the pin as shown you can take it off easily.

(122) Body Pin

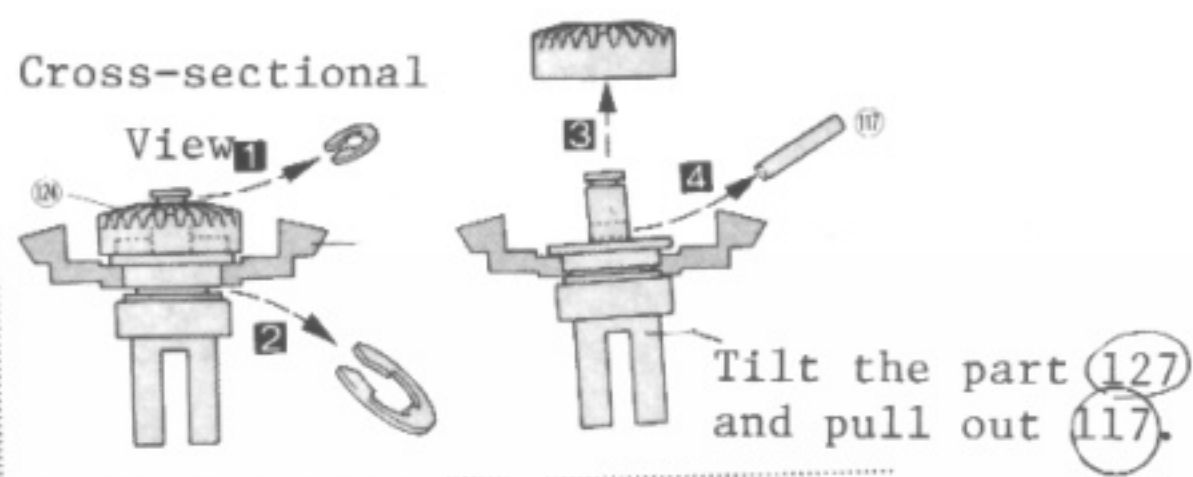


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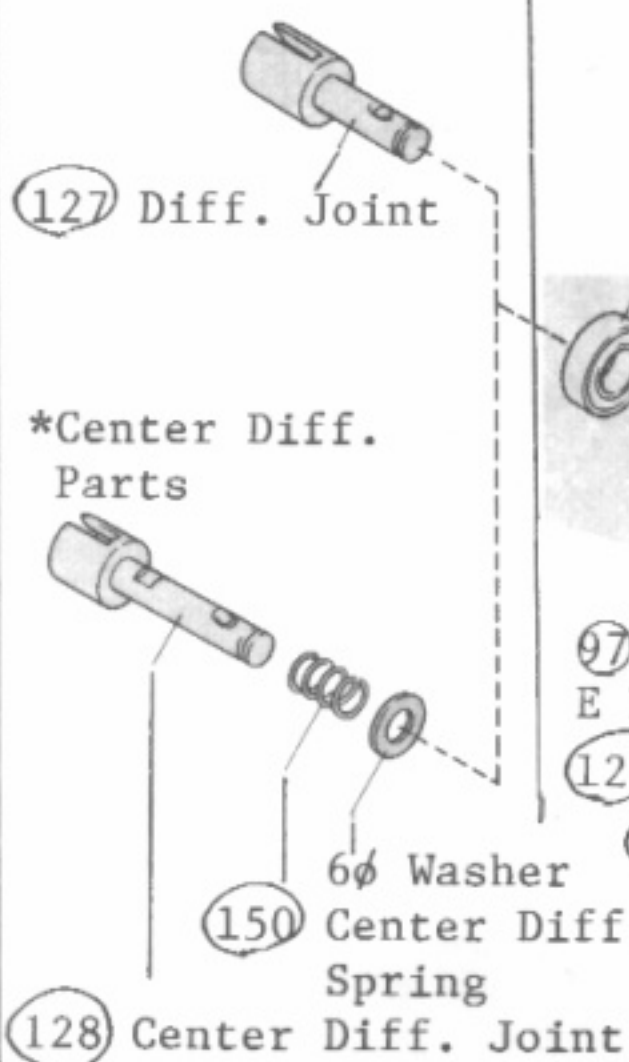


## 23 EXPLODED VIEW OF DIFFERENTIAL GEAR SYSTEM

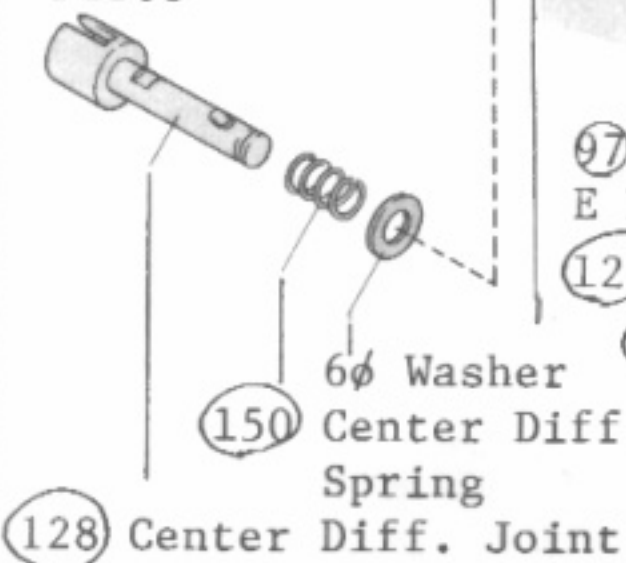
Take off the bevel gear (L) 124 in order from 1 to 4 steps.



\*Front & Rear Diff. Parts

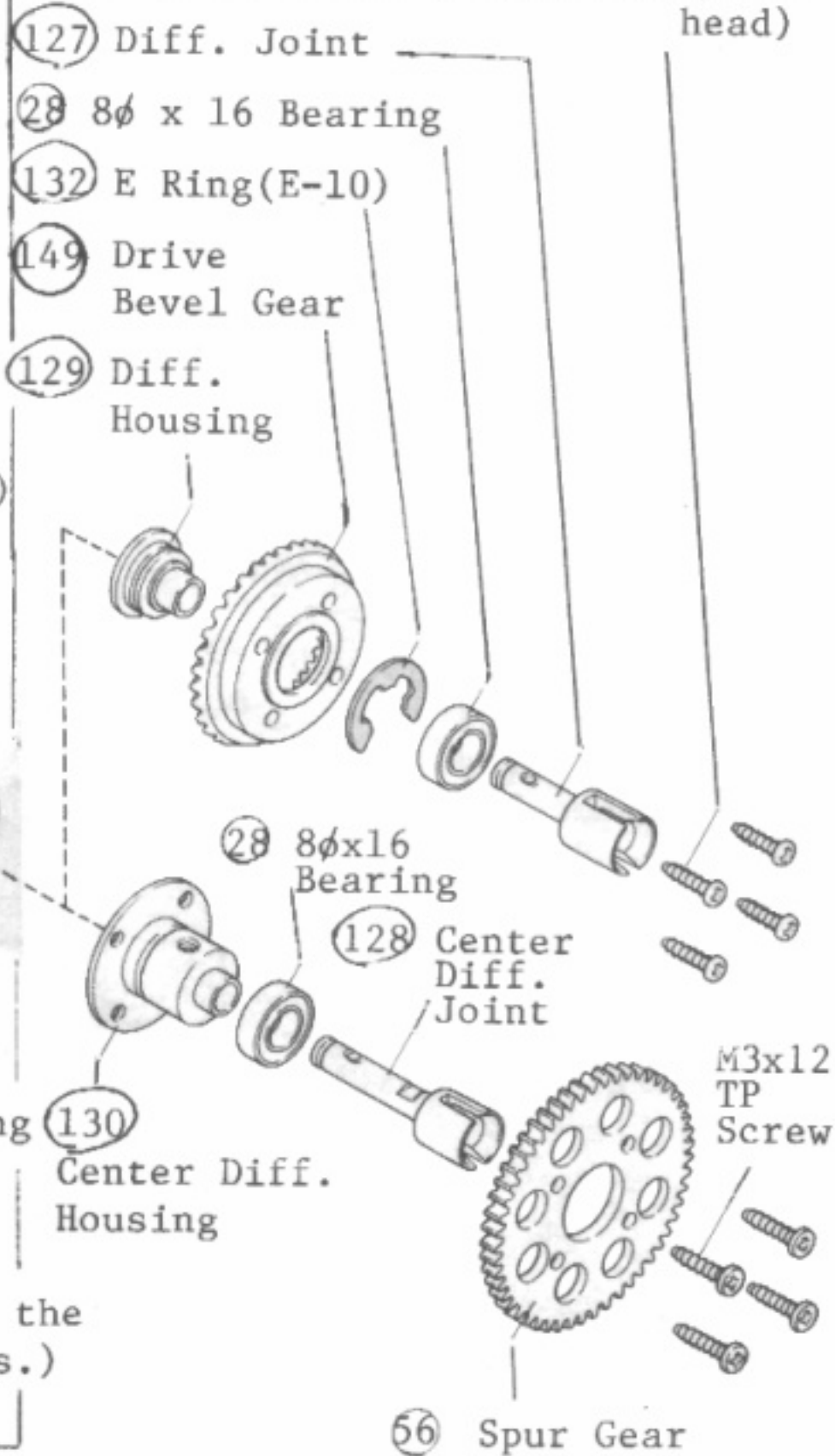


\*Center Diff. Parts



\*Front & Rear Diff. Parts

M3 x 10 TP Screw (Flattened round head)



\*Front & Rear Diff. (All these are the identical parts.)  
\*Center Diff.

\*Center Diff Parts

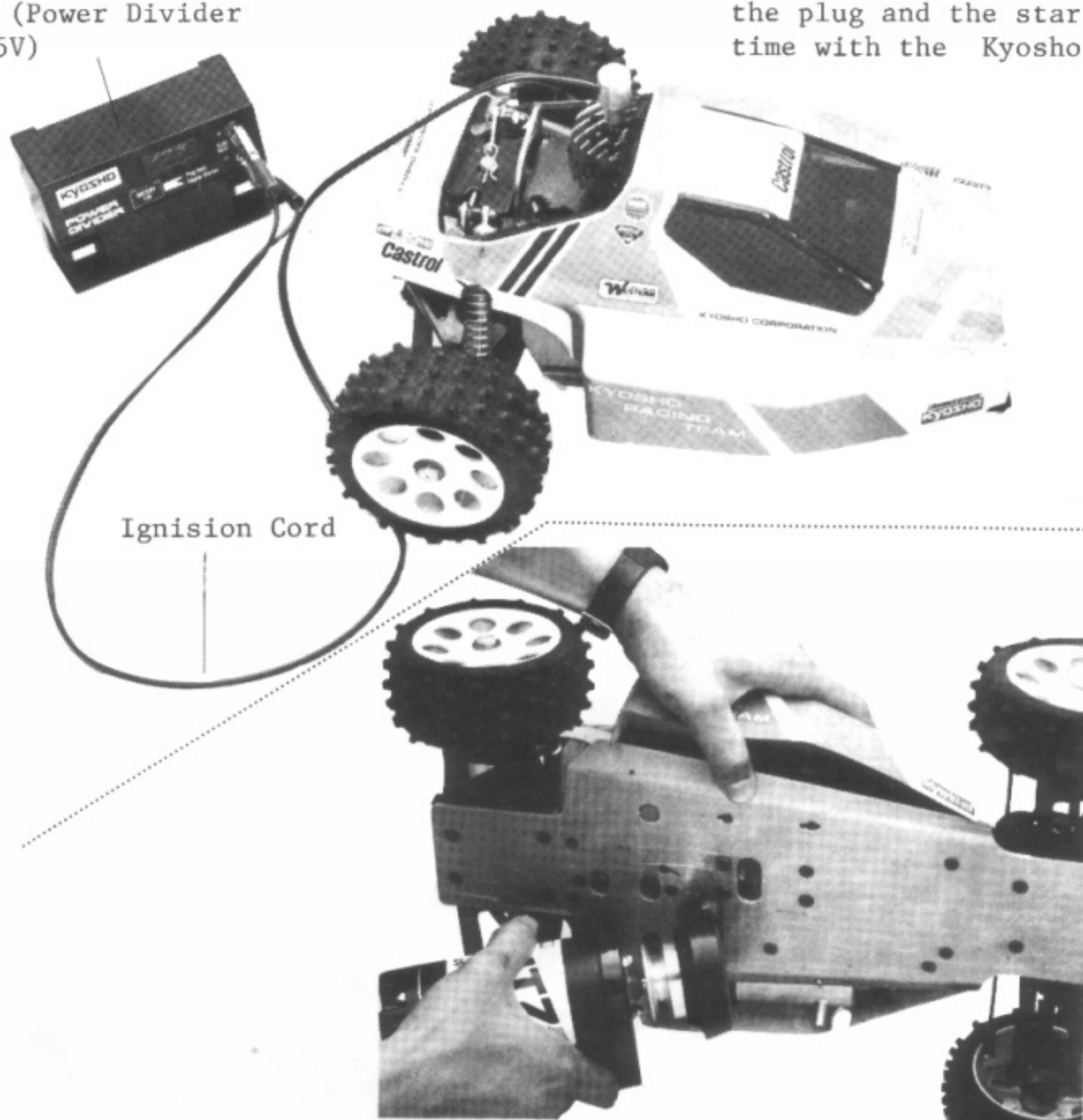
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## 24 STARTING ENGINE

For Plug Heat (Power Divider or Battery 1.5V)

You can use the device for heating up the plug and the starter at the same time with the Kyosho's "Power Divider."



Ignition Cord

### Hyper 500

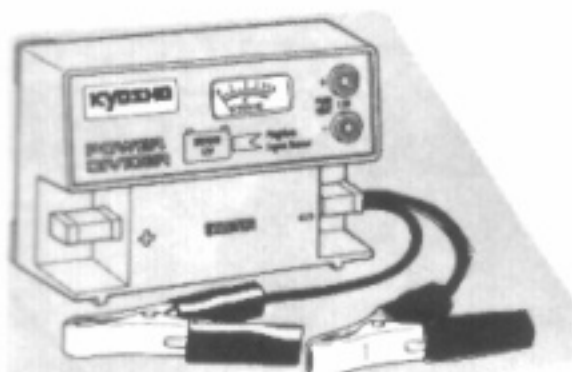
Excellent starting capability, high quality to protect your engine, works well to all types of engines.

Just with the container you have purchased, you can fill the tank and prime the carburetter; even to pump out the fuel in an engine. No additional fuel pump is required. The content is the best quality fuel with castor oil which gives tender care to the engine and prolong its span of life.



### Power Divider

It has two different voltage power sources; one for heating up the plug, 1.5 volts; the other is for driving a starter, 12 volts. It is powered from a 12 volt battery. The ammeter on it tells you how good or bad your plug is working.



No.BZ-1 Rubber Ring  
(for Car)(not included)



### Blitz Starter

It is equipped with a high power 12 volt DC motor. It powers your model with fast rotation and high torque. It will start all models such as racing and buggy cars, air planes, helicopters, and boats mounted with small to large sized engines.

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## 25 ADJUSTMENT OF CENTER DIFF. GEAR

M4 x 5 Set Screw  
(Actual Size)



Tighten the set screw onto the dent on the shaft.


When you do not need the function of the center differential, lock the center differential joint with a M4 set screw fixing to the point indicated with an arrow .

The more number of E-rings are inserted, the less function of the center differential gear is effected.

131 E Ring(E-6)

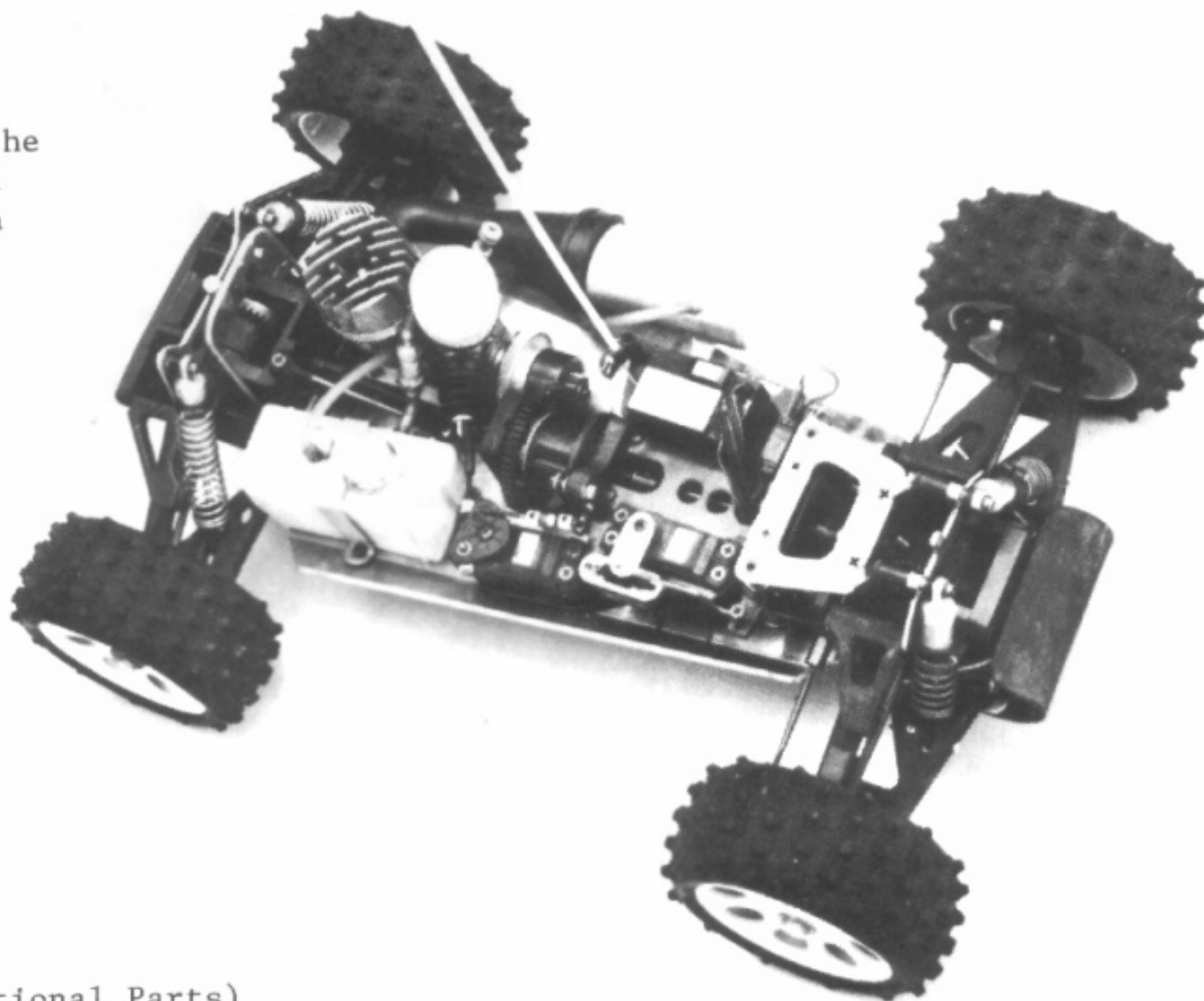


(Actual Size)

You can adjust the effectiveness of the center differential by the number of the E-rings 131 (E-6) fixing to the point on the center differential joint indicated with an arrow .

## 26 SETTING OF TIRE

When you want to lessen the response of steerage, put tires with the same width of the rear tires.



## INSTALLATION OF WING (Optional Parts)

\*For adopting the optional wing, the parts BSW-5 and BSW-6 are necessary.

This wing set works tremendously on a high-speed course or on another with high jumps.



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## KEY NUMBERS FOR PARTS

No.	Parts Name	Q'ty	No.	Parts Name	Q'ty	No.	Parts Name	Q'ty
1	Shock Pistons	4	58	Center Diff. Housing (B)	1	118	Wheel Stoppers	4
2	E Rings(E-2.5)	16	59	Disk Brake	1	119	O Rings(L)	4
3	Shock O Rings(Black)	8	60	Brake Pats	2	120	Wheel Stopper Bolts	4
4	Shock C Rings	4	61	Brake Cams	1	121	Body	1
5	Shock Collars(White)	4	62	Brake Stopper	1	122	Body Pins	2
6	Plastic Washers (Black)	4	63	Brake Lever	1	123	Diff. Cases	3
7	Spring Stoppers	4	64	Linkage Guide(A)	1	124	Bevels(L)	6
8	Shock Ends	4	65	Servo Saver Shafts(A)	2	125	Bevels(S)	6
9	Presser Tops	4	66	Servo Saver Shaft (B)	1	126	Bevel Shafts	3
10	Shock Caps	4	67	Front Gear cover	1	127	Diff Joints	4
11	Front Shock Shafts	2	68	Servo Saver Spring	1	128	Center Diff. Joints	2
12	Rear Shock Shafts	2	69	Servo Saver Horn(A)	1	129	Diff.Housings	2
13	Front Shock Cases	2	70	" (B)	1	130	Center Diff. Housing	1
14	Rear Shock Cases	2	71	" (C)	1	131	E Rings(E-6)	6
15	Front Springs	2	72	E Rings(E-7)	2	132	E Rings(E-10)	3
16	Rear Springs	2	73	Tie Rods(A)	3	133	Front sus. Upper Holder	1
17	5.8ø Balls	4	74	Tie Rod (B)	1	134	Straps(M)	2
18	Rear Sus. Holder	1	75	6ø Aluminum Collars	4	135	Body Hook	1
19	Rear Sus. Upper Holder	1	76	Antenna Pipe	1	136	Servo Spacers	2
20	Rear Bulk Head(L)	1	77	Radio Plate	1	137	Rear Housing(B)	1
21	" (R)	1	78	Switch Boot	1	138	Front Sus. Arms	2
22	Drive Gears	2	79	Servo Fixing Post	4	139	Silicone Grease	2
23	Joints	2	80	Strap (L)	1	140	Screw Rock	1
24	Sus. Plates	2	81	Roll Bar	1	141	Rear Hub(R)	1
25	Rear Housing(A)	1	82	Center Shfts	2	142	Speed control Rod	1
26	Rear Sus. Arms	2	83	Mount Plates	2	143	Main Chassis	1
27	Rear Hub (L)	1	84	Torque Rod Pivot	1	144	Upper Sus. (C)	2
28	8ø x 16 Bearings	18	85	Fuel Tank Pivot	1	145	Decal	1
29	Upper Sus.(A)	2	86	Bumber	1	146	Air Clener	1set
30	" (B)	4	87	Manifold	1	147	4ø x 67 Shafts	2
31	M5 x 35 Shafts	4	88	Engine Mounts	2	148	Servo Saver Plastic Collar	1
32	Rear Wheel Shafts	2	89	Flywheel	1	149	Drive Bevel Gears	2
33	Swing Shafts	2	90	Clutch Pins	2	150	Center Diff.Spring	1
34	Rear Shock Stay	1	91	Pilot Shaft	1	151	Spring Holders	4
35	3ø x 28 Shafts	8	92	Clutch Shoes	2	152	Gear Cover Seals	2
36	3ø x 43 "	8	93	Clutch Spring	1	153	Brake Rod	1
37	4ø x 78 "	2	94	Clutch Bearing Case	1	154	Diff.Case Packings	3
38	E Rings(E-3)	9	95	Clutch Rollers	8	155	Rubber Spacers	2
39	3ø Stoppers	4	96	Clutch Bell(13T)	1			
40	Rear Gear Cover	1	97	E Rings(E-4)	6			
41	Shock Bushes	4	98	Muffler(A)	1			
42	6.8ø Balls	7	99	" (B)	1			
43	6.8ø Ball Ends	8	100	Servo Fixing Stay(A)	1			
44	8ø Aluminium Collars	2	101	" (B)	1			
45	Front Housing(A)	1	102	Tank Cap	1			
46	" (B)	1	103	Tank Seal	1			
47	Front Bulk Head(R)	1	104	Tank	1			
48	" (L)	1	105	Aluminium Pipe	1			
49	Front Shock Stay	1	106	Rubber Bush	1			
50	Knuckle Arm(R)	1	107	Tube	1			
51	" (L)	1	108	Plate Joint	1			
52	Hub Carrier(R)	1	109	Steering Rod	1			
53	" (L)	1	110	2ø Stoppers	6			
54	King Pins	4	111	Speed Control Spring	1			
55	Universal Swing Shafts	2	112	Linkage Guide(B)	1			
56	Spur Gear	1	113	Rear Wheels	2			
57	Center Diff. Housing (A)	1	114	Front Wheels	2			
			115	Rear Tires	2			
			116	Front Tires	2			
			117	2.6ø x 16 Shafts	10			



## SPARE PARTS LIST

You can purchase replacement and optional parts for your kit. All of the parts identified by key numbers (see page 21 for a complete list) are usually not available singularly, but we offer these parts in convenient parts "packs" which can be purchased separately. To figure out which parts pack you need, find that key number for that part within the manual. Then consult our parts pack guide, below. When referring to the parts you need, always use the parts pack number. For instance, if you need a Shock Piston (key #1) ask your dealer for Kyosho Parts Pack BS-1 (Front Shock Set).

Parts Pack #	Description	Includes These Key Numbers
BS- 1	Front Shock Set	(1) (4) (5) (6) (7) (8) (9) (10) (11) (13) (15) (151) x 2 (2) (3) x 4
BS- 2	Rear Shock Set	(1) (4) (5) (6) (7) (8) (9) (10) (12) (14) (16) (151) x 2 (2) (3) x 4
BS- 3	Sus. Holder Set	(18) (19) (57) (58) (85) (100) (101) (133) (135) x 1 (136) x 2
BS- 4	Rear Bulk Head	(20) (21) (25) (137) x 1
BS- 5	Front Bulk Head	(45) (46) (47) (48) x 1
BS- 6	Lower Sus. Arm Set	(26) (138) x 2
BS- 7	Upper Sus. Arm Set	(29) (144) x 2 (30) x 4
BS- 8	Front Hub Carrier	(62) (63) x 1
BS- 9	Rear Hub Carrier Set	(27) (141) x 1
BS-10	Front Bumper	(86) x 1
BS-11	Main Gear	(66) x 1
BS-12	Radio Plate	(77) x 1 (41) (79) x 4
BS-13	Shaft Set	(35) (36) x 8 (37) (147) x 2
BS-14	Drive Bevel Gear Set	(22) (149) x 1
BS-15	Plate Set	(34) (49) (108) x 1 (24) x 2
BS-16	8ø x 16 Bearing	(28) x 2
BS-17	Rear Wheel Shaft	(32) x 2
BS-18	Gear cover	(40) (67) x 1
BS-19	Front Hub	(50) (51) x 1
BS-20	Universal Joint	(65) x 2
BS-21	Brake Set	(69) (61) (62) (63) (153) x 1 (60) x 2
BS-22	Servo Saver Set	(66) (68) (69) (70) (71) (148) x 1 (65) x 2 (72) x 4
BS-23	Tie Rod Set	(74) x 1 (73) x 2 (42) (43) x 6
BS-24	Roll Bar	(81) x 1
BS-25	Engine Mount	(83) (88) x 2
BS-26	Manifold	(87) x 1
BS-27	Muffler	(98) (99) x 1
BS-28	Fuel Tank Set	(102) (103) (104) (105) (106) (107) x 1
BS-29	Rear Wheel	(113) x 2
BS-30	Front wheel	(114) x 2
BS-31	Rear Tire (M-RH)	(115) x 2
BS-32	Front Tire (M-FH)	(116) x 2
BS-33	Wheel Stopper Set	(117) (118) (119) x 4
BS-34	Body (Burns)	(121) x 1
BS-35	Diff. Case	(123) x 1 (154) x 1
BS-36	Diff. Bevel (L)	(124) x 2
BS-37	Diff. Bevel (S)	(125) x 2
BS-38	Bevel Shaft	(126) x 2
BS-39	Diff. Joint	(127) x 2
BS-40	Center Diff. Joint	(128) x 2
BS-41	Diff. Housing	(129) x 1
BS-42	Center Diff. Housing	(130) (150) x 1
BS-43	Linkage Set	(64) (109) (111) (112) (142) x 1 (110) x 6
BS-44	Flywheel	(89) x 1 (90) x 2
BS-45	Swing shaft	(33) x 2
BS-46	6.8ø Ball	(42) x 10
BS-47	E Ring (E-10)	(132) x 10
BS-48	E Ring (E-6)	(131) x 10
BS-49	Screw Set	Screw, Nut, Wrench Set
BS-50	Aluminum Collar Set	(84) x 1 (75) (44) x 2
BS-51	Main Chassis	(143) x 1
BS-52	2.6ø x 16 Shaft	(117) x 10
BS-53	Shim Set	4øx10 6ø x 18 12ø x 16 8ø x 12 each 4pcs.



Parts Pack #	Description	Includes These Key Numbers
BS-54	Decal (Burns)	145 x 1
FM-185	Joint	23 x 2
FM-73	Pilot Shaft	91 x 1
FM-29	Body Pin	122 x 10
BS-55	Wheel Stopper Bolt	120 x 10
KC-18	3ø Stopper	39 x 10
KC-20	E Ring (E-4)	97 x 4
KC-45	Special Clutch Shoe	93 x 1 92 x 2
LD-70	Clutch Bearing	94 x 1 95 x 8
KC- 7	King Pin	54 x 4
SD-54	Clutch Bell (13Z)	96 x 1
SD-79	Antenna Pipe	76 x 5
OT-39	E Ring (E-2.5)	2 x 10
OT-32	5.8ø Ball	17 x 10
EF-39	Ni-Cad Strap	80 x 6
EF-38	Strap	134 x 6
CB-151	Center Shaft	82 x 2
CB-110	Air Cleaner	146 x 1set

**\*\* Optional parts \*\***

FM-82	Clutch Bell (11Z)	
SD-53	" (12Z)	
FM-75	Clutch bearing	
FM-50	Special Engine Mount	
BSW-1	Drive Bevel (S)	
BSW-2	" (L)	
BSW-3	Special Manifold	
BSW-4	Stabilizer	Front, Rear Set
BSW-5	Wing	
BSW-6	Wing Stay	
BSW-7	Special Main Chassis	
FM-217	Special Silencer	Tuned Type
LD-29	Silicone Pipe	For Muffler, Manifold Joint
BSW-8	Collar Wheel (Front)	
BSW-9	" (Rear)	
BSW-10	Rear Tire (M-RS)	
BSW-11	" (S-RH)	
BSW-12	" (S-RS)	
BSW-13	Front Tire (M-FS)	
BSW-14	" (S-FH)	
BSW-15	" (S-FS)	
SD-55	Clutch Bell (14Z)	
1953	Silicone Oil (S)	
1964	"	
1954	" (M)	
1955	" (H)	

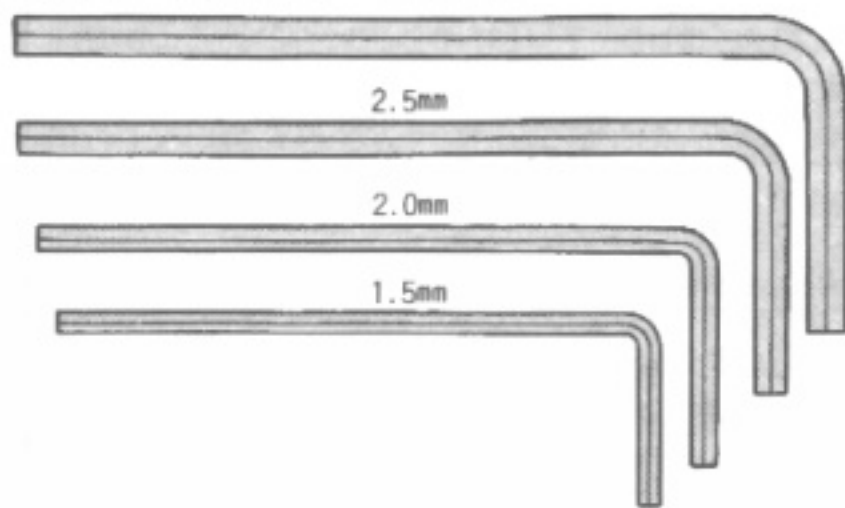
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## LIST OF BAGGED PARTS

\*

Allen Wrench 3.0mm



### 1 Assembly of shock

- ③ Shock O Rings (Black) (8)
- ④ Shock C Rings (4)
- ⑤ Shock Collars (White) (4)
- ⑥ Plastic Washers (Black) (4)
- ⑧ Shock Ends (4)

### 2 FILLING SHOCK WITH OIL

- ⑨ Pressure Tosps (4)

### 3 INSTALLATION OF SHOCK SPRING

- ① 5.8φ Balls (4)

### 4 ASSEMBLY OF REAR GEARBOX

- M4x15 TP Flat Head Screws (2)
- M4x15 TP Screws (2)
- M4x25 TP Flat Head Screws (4)
- M5x4 Set Screw (1)
- 12φx16 Shims (2)

### 5 INSTALLATION OF SUS. ARM

- M4x15 TP Screws (4)
- M3x18 Cap Screws (2)
- M3x3 Set Screws (2)
- M4x12 Set Screws (2)
- M3 Flange Nut (2)
- ② E Rings (E-2.5) (8)
- ③ E Rings (E-3) (4)

- ③ M5x35 Shafts (2)

- ⑤ 3φx28 Shafts (2)

- ⑥ 3φx43 Shafts (4)

- ⑦ 4φx78 Shafts (2)

### 6 INSTALLATION OF REAR SHOCK

- M3x8 TP Screw (1)
- M3x15 SCerw (1)
- M3x5 Set Screws (2)
- M3 Nylon Nuts (2)
- ⑤ 3φx28 Shafts (2)
- ④ Shock Bushes (2)
- ④ 6.8φ Ball (1)
- ⑦ Tie Rod (A) (1)
- ⑬ Body Hook (1)

### 7 ASSEMBLY OF FRONT GEARBOX

- M3x8 TP Screws (2)
- M4x15 TP Flat Head Screws (4)
- M4x15 TP Screws (2)
- M4x25 TP Flat Head Screws (2)
- M3x30 Cap Screws (2)
- M5x4 Set Screw (1)
- M3 Nylon Nuts (2)
- 12φx16 Shims (2)
- ⑦ 6φ Aluminium Collar (2)

### 9 INSTALLATION OF FRONT SHOCK

- M3x5 Set Screws (2)
- M3 Nylon Nuts (2)
- ⑤ 3φx28 Shafts (2)
- ④ Shock Bushes (2)

### 8 INSTALLATION OF FRONT SUS. ARM

- M3x3 Set Scrws (2)
- M4x12 Set Screws (2)
- ② E Rings (E-2.5) (8)
- ③ E Rings (E-3) (4)
- ③ M5x35 Shafts (2)
- ⑤ 3φx28 Shafts (2)
- ⑥ 3φx43 Shafts (4)
- ④ 4φx67 Shafts (2)
- ③ 3φ Stoppers (2)
- ⑤ King Pins (4)
- 10 INSTALLATION OF BRAKE AND SERVO SAVER
- M3x8 TP Screws (2)
- M3x12 TP Screws (4)
- M4x15 TP Screws (4)
- M3x25 Screws (2)
- M4x8 Screws (2)
- M3x8 Cap Screws (2)
- M3x3 Set Screw (1)
- M3 Nylon Nuts (5)
- 3φ Washers (4)
- ④ 6.8φ Balls (6)
- ④ 6.8φ Ball Ends (6)
- ⑥ Brake Cam (1)
- ⑥ Brake Lever (1)
- ⑥ Linkage Guide (A) (1)
- ⑥ Servo Saver Shafts (2)
- ⑦ Tie Rods (A) (2)
- ⑦ Tie Rod (B) (1)
- ⑦ 6φ Aluminium Collars (2)



# 11 INSTALLATION OF RADIO SYSTEM

- M3x15 TP Screws(4)
- 79 Servo Fixing Posts(2)

# 12 INSTALLATION OF REAR BLOCK

- M3x8 TP Screws(3)
- M4x15 TP Screws(4)
- M3x8 Screw(1)
- M4x15 Screws(2)
- M4 Nylon Nuts(2)
- 30x10 Washers(2)
- 40 Washers(2)
- 84 Torque Rod Pivot(1)
- 125 Rubber Spacers(2)

# 13 INSTALLATION OF FRONT BLOCK

- M3x12 Flat Head Screws(2)
- M4x15 TP Flat Head Screws(2)
- M4x15 TP Screws(2)

# 14 INSTALLATION OF CLUTCH

- M3x10 Cap Screws(5)
- M3x20 Cap Screw(1)
- 50 Washer(1)
- 50x18 Washer(1)
- 91 Pilot Shaft(1)
- 94 Clutch Bearing Case(1)
- 95 Clutch Rollers(8)
- 38 E Ring(E-3)(1)

# 15 INSTALLATION OF ENGINE AND SPEED CONTROL SERVO

- M3x8 TP Screws(2)
- M3x15 TP Screws(6)
- M3x15 Screw(1)
- M4x8 Screws(4)
- M4x10 Cap Screws w/flange(4)
- M3 Nylon Nut(1)
- 105 Aluminium Pipe(1)

- 106 Rubber Bush(1)

\*In case of Large Servo

- 136 Servo Spacers(2)

# 16 INSTALLATION OF RADIO PLATE

- M3x8 TP Screws(2)
- M3x12 TP Screws(2)
- M4x15 TP Screws(2)
- M4x15 Screws(2)
- M3x3 Set Screw(1)
- 44 Aluminium Collars
- 109 Steering Rod(1)

# 17 SPEED CONTROL LINKAGE

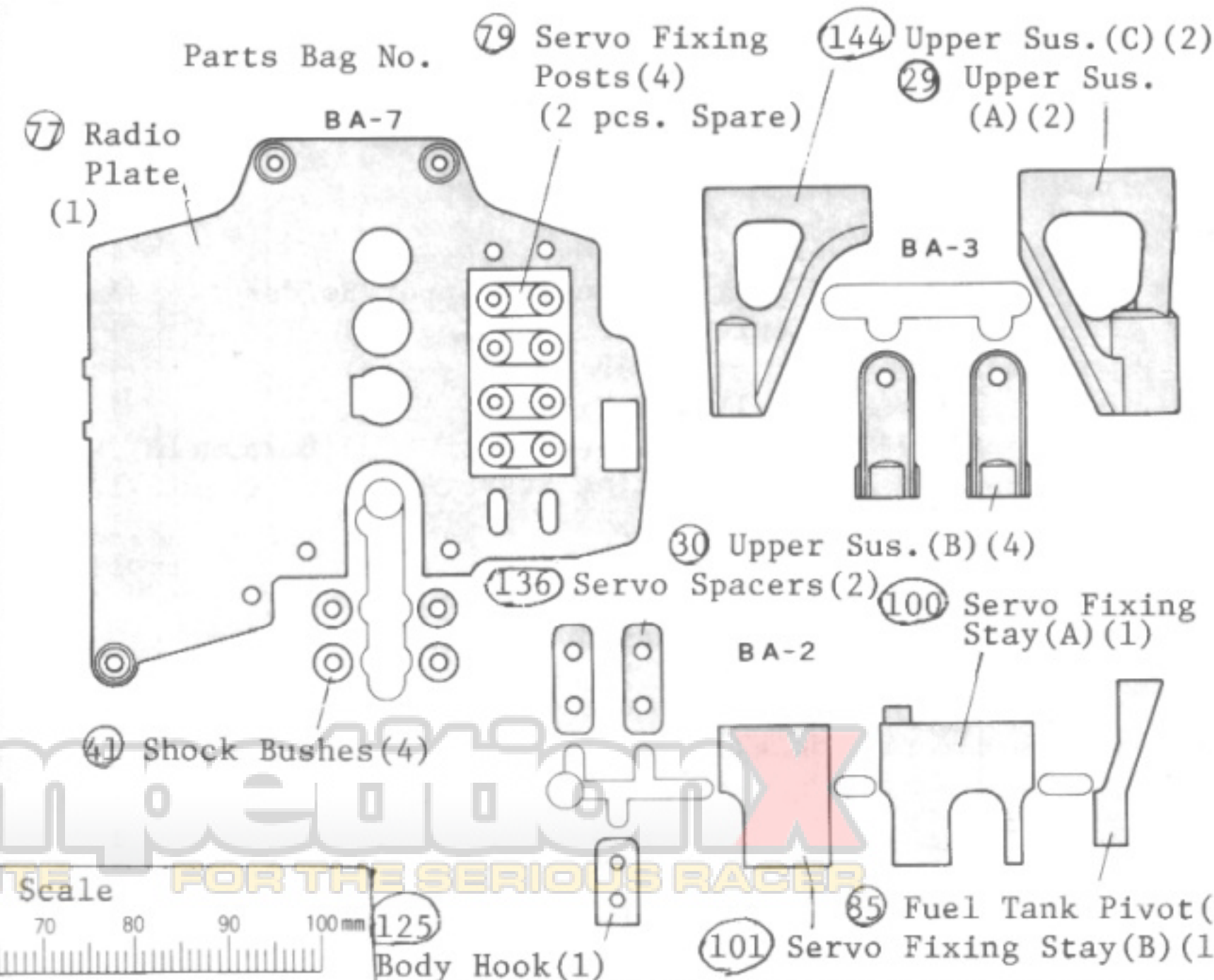
- M3x3 Set Screws(6)
- M2 Nut(1)
- 110 20 Stopper
- 111 Speed Control Spring(1)
- 112 Linkage Guide (B)(1)
- 153 Brake Rod(1)

# 19 INSTALLATION OF TIRE

- 80x16 Washers(4) (Aluminium)
- 117 2.60x16 Shafts (4)
- 119 O Rings(L)(4)
- 120 Wheel Stopper Bolts(4)
- \*In case that wheel shaft has a back-lash some play.
- 80x12 Shims(4)

# 22 MOUNTING OF BODY

- 122 Body Pins (2)





## LIST OF BAGGED PARTS

Bag No.	Key No.	Parts Name	Q'ty	Installation No. used in Instruction
Blister(L)	98	Muffler (A)	1	(15)
	99	" (B)	1	(15)
	87	Manifold	1	(14)
	22	Drive Gears	2	(4) (7)
	26	Rear Suspension Arms	2	(5)
	138	Front Suspension Arms	2	(8)
	96	Clutch Bell(13T)	1	(14)
	89	Flywheel	1	(14) Assembled
	90	Clutch Pins	2	"
	56	Spur Gear	1	(10)
		Center Diff.	1	(10) Assembled
		Diff. Gear	2	(4) (7) "
		Front shocks	2	(1) Assembled
Blister(S)		Rear Shocks	2	(1) "
	118	Wheel Stopper	4	(19)
	28	8ø x 16 Bearings	8	(5) (8)
	82	Center Shafts	2	(12) (13)
	33	Swing Shafts	2	(5)
	55	Universal Swing shafts	2	(8)
	50	Knuckle Arm (R)	1	(8)
	51	" (L)	1	(8)
	121	Body	1	(20)
	114	Front Wheels	2	(18)
Others	113	Rear Wheels	2	(18)
	116	Front tires	2	(18)
	115	Rear Tires	2	(18)
	143	Main Chassis	1	(10)
	76	Antenna Pipe	1	(11)
	18	Rear Sus. Holder	1	(4)
	19	Rear Sus. Upper Holder	1	(4)
BA-2	137	Rear Housing (B)	1	(4)
	20	Rear Bulk Head (L)	1	(4)
	21	" (R)	1	(4)
	25	Rear Housing (A)	1	(4) 8øx16 Bearing 2pcs.included
	45	Front Housing (A)	1	(7) 8øx16 Bearing 2 pcs.included
	47	Front Bulk Head (R)	1	(7)
	48	" (L)	1	(7)
	46	Front Housing (B)	1	(7)
	133	Front Suspension Upper Holder	1	(7)
	57	Center Diff. Housing (A)	1	(10)
	58	" (B)	1	(10)
	85	Fuel Tank Pivot	1	(12)
	136	Servo Spacers	2	(15)
	100	Servo Fixing Stay (A)	1	(15)
	101	" (B)	1	(15)
	135	Body Hook	1	(6)
	29	Upper Suspensions (A)	2	(5)
	30	" (B)	4	(5) (8)
	144	" (C)	2	(8)
	43	6.8ø Ball Ends	8	(6) (10)
BA-3	52	Hub Carrier (R)	1	(8)
	53	" (L)	1	(8)
	141	Rear Hub (R)	1	(5)
	27	" (L)	1	(5)



BA-9	104	Tank	1	(15)
	103	Tank Seal	1	(15)
	102	Tank Cap	1	(15)
		Shock Oil (Yellow)	1	(2)
		" (Green)	1	(2)
		Silicone Greases	2	
		Screw Cement	1	
		Small Bags for Shock	2	①②④⑤⑥ x 2 , ③ x 4
BA-10	152	Gear Cover Seals	2	(4) (7)
	107	Tube	1	(15)
	134	Straps (M)	2	(15) for Muffler
	142	Speed Control Rod	1	(17)
	109	Steering Rod	1	(16)
	80	Strap (L)	1	(11)
	146	Air Cleaner	1 set	(14)
	40	Rear Gear Cover	1	(4)
	67	Front Gear Cover	1	(8)
		M4 x 25 Self Tapping Flat Head Screw	6	(4) (7)
BA-1		M4 x 15 "	8	(4) (7) (13)
		M4 x 15 Self Tapping Bind Screw	20	(4) (5) (7) (10) (12) (13) (16)
		M3 x 15 "	10	(11) (15)
		M3 x 12 "	6	(10) (16)
		M3 x 8 "	12	(6) (7) (10) (12) (15) (16)
		M4 x 15 Bind Screws	4	(12) (16)
		M4 x 8 "	6	(10) (15)
		M3 x 25 "	2	(10)
		M3 x 15 "	2	(6) (15)
		M3 x 8 "	1	(12)
		M3 x 12 Flat Head Screws	2	(13)
		M4 x 10 Cap Screws w/Flange	4	(15)
		M3 x 30 Cap Screws	2	(7)
		M3 x 20 "	1	(14)
		M3 x 18 "	4	(5) (10)
		M3 x 10 "	5	(14)
	122	Body Pins	3	(22) 1 pce. of spare
	31	M5 x 35 Shafts	4	(5) (8)
		M4 x 12 Set Screws	4	(5) (8)
		M5 x 4 "	2	(4) (7)
		M4 x 5 "	1	(25)
		M3 x 5 " (White)	4	(6) (9)
		M3 x 3 "	13	(5) (8) (10) (16) (17) 1 pce. of spare
		M3 Flange Nut	2	(5)
		M4 Nylon Nuts	2	(12)
		M3 Nylon Nuts	12	(6) (7) (9) (10) (15)
		M2 Nut	1	(17)
	131	E Rings (E-6)	6	
	38	" (E-3)	10	(5) (8) 2 pcs. of spare
	2	" (E-2.5)	16	(5) (8) "
		8ø x 16 Washers (Aluminium)	6	(19) "
		3ø x 10 Washers (Black)	2	(12)
		4ø Washers (Yellow)	2	(12)
		3ø Washers (Yellow)	4	(10)
		12ø x 16 Shims	5	(4) (7)
		8ø x 12 Shims	8	(19)
		Allen Wrench 1.5	1	
		" 2.0	1	
		" 2.5	1	
		" 3.0	1	



BA-4	73	Tie Rods (A)	3	(10, (6)
	74	" (B)	1	(10)
	44	8φ Aluminium Collars	2	(16)
	120	Wheel Stopper Bolts	4	(19)
	119	O Rings (L)	4	(19)
	117	2.6φ x 16 Shafts	4	(19)
	65	Servo Saver Shafts (A)	2	(10)
	54	King Pins	4	(8)
	42	6.8φ Balls	7	(6) (10)
	84	Torque Rod Pivot	1	(12)
	64	Linkage Guide (A)	1	(10)
	39	3φ Stoppers	4	(5) (8)
	75	6φ Aluminium Collars	4	(7) (10)
BA-5	24	Suspension Plates	2	(4) (7)
	34	Rear Shock Stay	1	(5)
	49	Front Shock Stay	1	(7)
	60	Brake Pads	2	(10)
	62	Brake Stopper	1	(10)
	83	Mount Plates	2	(15)
	108	Plate Joint	1	(16)
BA-6	32	Rear Wheel Shafts	2	(5)
	23	Joints	2	(4) (7)
	36	3φ x 43 Shafts	8	(5) (8)
	37	4φ x 78 Shafts	4	(5) (8)
	35	3φ x 28 Shafts	8	(5) (6) (8) (9)
BA-7	66	Servo Saver Shaft (B)	1	(10) Assembled
	68	Servo Saver Spring	1	" "
	70	Servo Saver Horn (B)	1	" "
	71	" (C)	1	" "
	148	Servo Saver Plastic Collar	1	(10)
	59	Disc Brake Body	1	(10)
	69	Servo saver Horn (A)	1	(10)
	77	Radio Plate	1	(11)
	79	Servo Fixing Posts	4	(11) 2 pcs. of spares
	41	Shock Bushes	4	(6) (9)
	81	Roll Bar	1	(12)
	86	Bumper	1	(13)
	88	Engine Mounts	2	(14) 1 set of one ridge and two
BA-8	91	Pilot Shaft	1	(14)
	92	Clutch Shoes	2	(14) Assembled
	93	Clutch Spring	1	" "
	94	Clutch Bearing Case	1	(14) Small bag
	95	Clutch Rollers	8	" "
	97	E Rings (E-4)	2	" "
		5φ x 18 Washer	1	" "
		5φ Washer	1	" "
	105	Aluminium Pipe	1	(15)
	106	Rubber Bush	1	(15)
	110	2φ Stoppers	6	(17)
	153	Brake Rod	1	(17)
	111	Speed Control Spring	1	(17)
	112	Linkage Guide (B)	1	(17)
	61	Brake Cam	1	(10)
	63	Brake Lever	1	(10)
	17	5.8φ Balls	4	(3)
	78	Switch Boot	1	(11)



Pieces de rechange (suite)

REF.	Nom des pieces	Composition du sachet
BS48	Clip E6	131 X 10
BS49	Jeu de vis	Vis, écrous, jou de
BS50	Plot et entretoise	84 X 1. 75/44 X 2
BS51	Chassis	143 X 1
BS52	Axe 2.6X16mm	117 X 10
BS53	Rondelle de calage	4X10/6X18/12X16/8X12 X 4
BS54	Décoration	145 X 1
FM185	Noix de cardan (centrale)	23 X 2
FM73	Ecrin d'embrayage	91 X 1
FM29	Epingles de carrosserie	122 X 10
BS55	Ecrin de roue	120 X 10
KC18	Baques d'arrêt 3mm	39 X 10
KC20	Clip E4	97 X 4
KC45	Garniture d'embrayage	93 X 1. 92 X 2
LD70	Roulement d'embrayage	94 X 1. 95 X 8
KC7	Pivot de fusée	54 X 4
SD54	Cloche d'embrayage (13dts)	96 X 1
SD79	Tube d'antenne	76 X 5
OT39	Clip E2.5	2 X 10
OT32	Boule de chape 5.8mm	17 X 10
EF39	Collier plastique	80 X 6
EF38	Collier plastique (T.Moyen.)	134 X 6
CB151	Cardan central	82 X 2
CB110	Filtre à air	146 X 1 jeu

OPTIONS

FM82	Cloche d'embrayage	11 dents
SD53	"	12 dents
FM75	Roulement d'embrayage	
FM50	Supports moteur spécial	
BSW1/BSW2	Couple conique	
BSW3	Coude d'échappement spécial	
BSW4	Barres anti-roulis AV/AR	
BSW5	Aileron	
BSW6	Support d'aileron	
BSW7	Chassis spécial	
FM217	Silencieux accordé	
LD29	Durite d'échappement	
BSW10	Pneus arriere (M-RS)	
BSW11	" (S-RH)	
BSW12	" (S-RS)	
BSW13	Pneus avant (M-FS)	
BSW14	" (S-HF)	
BSW15	" (S-SF)	
SD55	Cloche d'embrayage 14 dents	
1953	Huile silicone fluide	
1954	" moyenne	
1955	" épaisse	

DISTRIBUÉ PAR

DRASTIC/C.T.M.B

Pieces de rechange

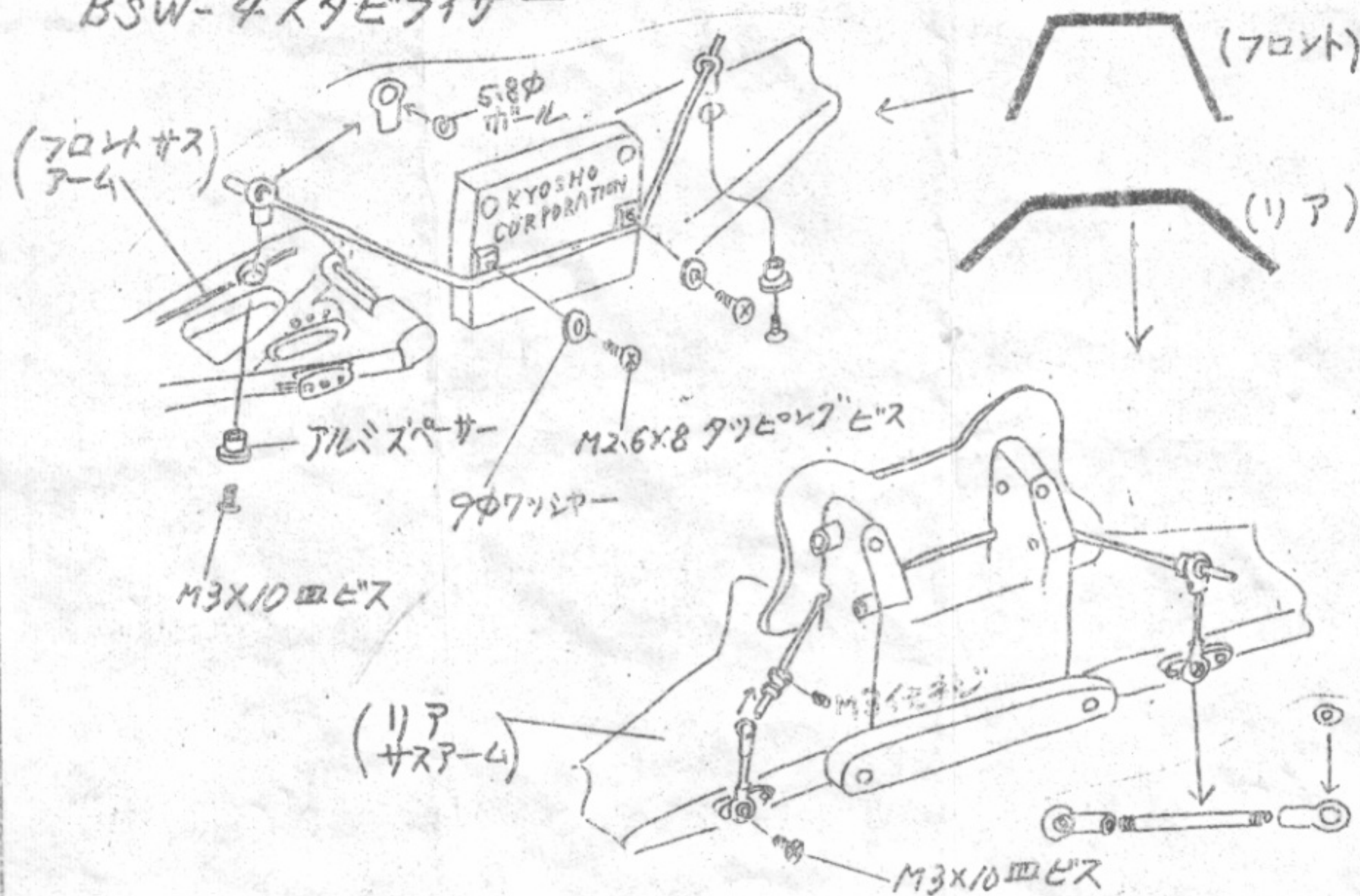
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Les chiffres indiqués dans la rubrique "Composition du sachet" correspondent aux références des pièces repérées sur les dessins de la notice de montage.

REF.	Nom des pieces	Composition du sachet
BS1	Amortisseurs avant	1/4/5/6/7/8/9/10/11/13/15X 2
BS2	Amortisseurs arriere	151 X 2. 2/3 X 4
BS3	Fixations de suspension	1/4/5/6/7/8/9/10/12/14 X 2
BS4	Carter arriere	16/151 X 2. 2/3 X 4
BS5	Carter avant	18/19/57/85/100/101/103 X 1
BS6	Bras de suspension inf.	135 X 1. 136 X 2
BS7	Bras de suspension sup.	20/21/25/137 X 1
BS8	Etrier de porte-fusée	45/46/47/48 X 1
BS9	Porte fusée arriere	26/138 X 2
BS10	Pare-choc avant	29/144/ X 2. 30 X 4
BS11	Couronne de différentiel	52/53 X 1
BS12	Platine radio	37/141 X 1
BS13	Axe de suspension	86 X 1
BS14	Couple conique	56 X 1
BS15	Plaque métallique.	77 X 1. 41/79 X 4
BS16	Roulement 8X16	35/36 X 8. 37/147 X 2
BS17	Axe de roue arriere	22/149 X 1
BS18	Couvercle de carter	34/49/108 X 1. 24 X 1
BS19	Porte-fusée avant	28 X 2
BS20	Cardan avant	32 X 2
BS21	Frein	40/67 X 1
BS22	Sauve-servo	50/51 X 1
BS23	Jeu de biellettes	55 X 2
BS24	Arceau	59/61/63/153 X 1. 60 X 2
BS25	Support moteur	66/68/69/70/71/148 X 1.
BS26	Coude d'échappement	65 X 2. 72 X 4
BS27	Silencieux	74 X 1. 73 X 2. 42/43 X 6
BS28	Réservoir	81 X 1
BS29	Roue arriere	83/88 X 2
BS30	Roue avant	87 X 1
BS31	Pneu arriere	98/99 X 1
BS32	Pneu avant	102/103/104/105/106/107 X 1
BS33	Entraineur de roue	113 X 2
BS34	Carrosserie	114 X 2
BS35	Corps de différentiel	115 X 2
BS36	Planétaire	116 X 2
BS37	Satellite	117/118/119 X 4
BS38	Axe de satellite	121 X 1
BS39	Noix de cardan	123 X 1. 154 X 1
BS40	Noix de cardan (Diff. central)	124 X 2
BS41	Pallier de différentiel	125 X 2
BS42	Pallier de diff. central	126 X 2
BS43	Jeu de tringlerie	127 X 2
BS44	Volant moteur	128 X 2
BS45	Cardan arriere	129 X 1
BS46	Boule de chape 6.8	130/150 X 1
BS47	Clip E10	64/109/111/112/142 X 1.
		110 X 6
		89 X 1. 90 X 2
		33 X 2
		42 X 10
		132 X 10



# BSW-4スタビライザー





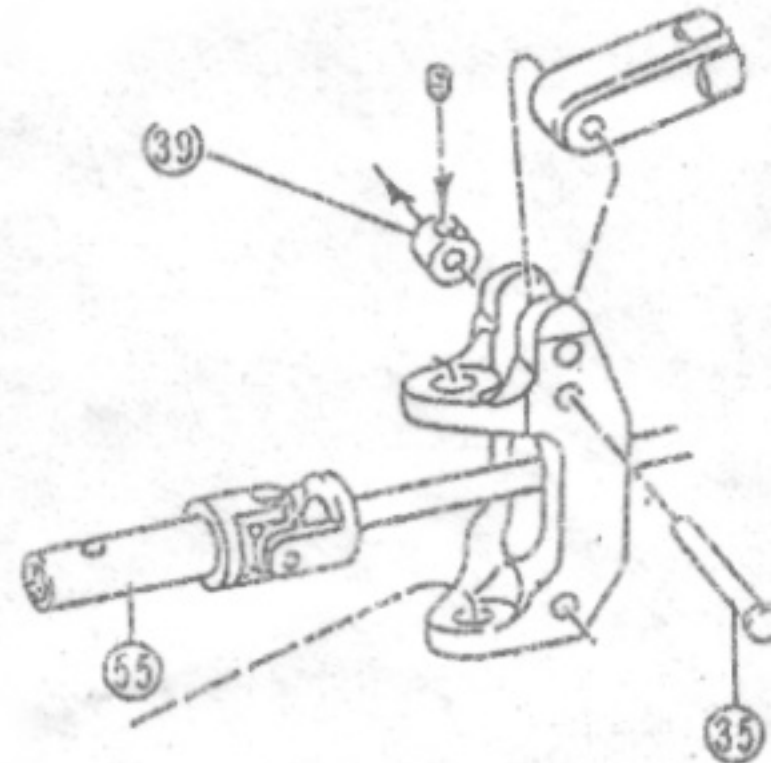
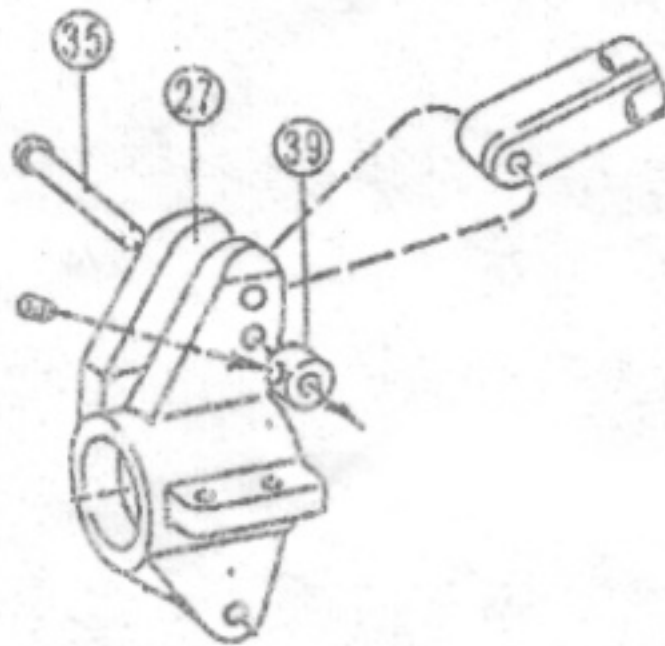
## 補足説明 Change notice

組立説明書4ページ [5] の(14) (27) リアハブ及び6ページ  
[8] の(52) (53) ハブキャリアの形状を変更しました。  
取付穴は下記の所です。

The following parts of the assembly instructions  
have been changed :

1. The shape of rear hubs 26 and 27 (on page 4, step 5) has been changed.  
See illustration below.
2. The shape of hub carriers 52 and 53 (on page 6, step 8) has been changed.  
See illustration below.

Please correct your instructions.





# BURNS 4WD BURNS 4WD

# BURNS 4WD BURNS 4WD

# BURNS 4WD BURNS 4WD

A WEB SITE

THE FINEST RADIO CONTROL MODELS  
THE FINEST RADIO CONTROL MODELS

ENGINE & MACHINE TUNE  
ENGINE & MACHINE TUNE  
ENGINE & MACHINE TUNE  
ENGINE & MACHINE TUNE

1/8 BUGGY RADIO CONTROL OFF ROAD RACE CAR  
1/8 BUGGY RADIO CONTROL OFF ROAD RACE CAR  
1/8 BUGGY RADIO CONTROL OFF ROAD RACE CAR  
1/8 BUGGY RADIO CONTROL OFF ROAD RACE CAR

KYOSHO RACING TEAM  
KYOSHO RACING TEAM

CRAGAR

CRAGAR

OFF ROAD  
UNLIMITED

OFF ROAD  
UNLIMITED

arizona  
desert  
rat  
off road

arizona  
desert  
rat  
off road

KYOSHO  
THE FINEST RADIO CONTROL MODELS

KYOSHO  
THE FINEST RADIO CONTROL MODELS

KYOSHO RACING TEAM  
KYOSHO RACING TEAM

JACK FURNBERG  
WESTERN  
TIRE CENTERS

JACK FURNBERG  
WESTERN  
TIRE CENTERS

HOOKER  
HEADERS

HOOKER  
HEADERS

FOUR WHEEL DRIVE  
FOUR WHEEL DRIVE  
FOUR WHEEL DRIVE  
FOUR WHEEL DRIVE

OFF-ROAD  
CHAMPIONSHIP  
GRANDPRIX

OFF-ROAD  
CHAMPIONSHIP  
GRANDPRIX

ENGLE  
CAMS

ENGLE  
CAMS

BRIDGESTONE

BRIDGESTONE

BRIDGESTONE

BRIDGESTONE

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SUPER SUSPENSION SYSTEM  
SUPER SUSPENSION SYSTEM  
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SUPER SUSPENSION SYSTEM

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